

# **EXHIBIT 59**

Economic Analysis and Present Value of a Medical  
Monitoring Program for PFOA-Exposed Class Members in  
Bennington, Vermont

Prepared by:

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December 15, 2017

## Qualifications

I am a Professor at the Schneider Institutes for Health Policy at the Heller School, Brandeis University, and the Director of the Institutes' group on cost and value. A health economist concerned with maintaining and improving health in the United States and internationally, my major concentrations are cost and cost-effectiveness analysis in health, health financing, and performance incentives. My research applies this work to health problems both in the United States and in low and middle-income countries. My complete C.V. is included as Attachment A.

Substantive areas in the United States concern cardiovascular disease, homelessness, HIV/AIDS, vaccines, measurement of the quality of life, and control of mosquitoes, oral health, and selected environmental exposures. Substantive areas globally concern malaria, dengue, and lymphatic filariasis, vaccines, and universal health coverage, and incentives to healthcare providers and consumers.

I have been a regular member of initial review group that rates grant applications for the National Institutes of Health in health services and HIV/AIDS. In 1976, I co-authored the publication that first coined the term "QALY," for quality-adjusted life years. This concept has become central to cost-effectiveness analysis in health over the subsequent half century. In 2016, the American Society of Tropical Medicine and Hygiene named me a Fellow. In 2017, the publishers of Marquis Who's Who awarded me a Marquis, and Who's Who named me an Albert Nelson Marquis Lifetime Achievement Award recipient, in recognition of career accomplishments. I am the author of approximately 200 peer-reviewed professional books, journal articles, and chapters. These are listed in reverse chronological order by type of publication in my curriculum vitae (C.V.), attached as Appendix A.

In a related project for the Centers for Medicare & Medicaid Services (CMS), the agency that runs the Medicare program serving 40 million Americans, I was chosen as Principal Investigator of the Medicare Lifestyle Modification Evaluation. The study evaluated the long term costs and impacts of medical services for a population at risk. The findings were the subject of a peer-reviewed book, a chapter, and many peer reviewed articles. One of these was awarded "outstanding paper of the year" by the American Association for Cardiovascular and Pulmonary Rehabilitation.

I have not offered expert testimony either at trial or by deposition during the previous four years. My fee for the provision of expert witness services in this matter is \$200.00 per hour.

## Assignment

I have been asked by the Plaintiffs to calculate the present value of a medical monitoring program designed for residents of Bennington and North Bennington, Vermont, who have been exposed to perflourooctanoic acid (PFOA) in their drinking water wells. The Bennington Medical Monitoring Program (MMP), designed by Alan Ducatman, M.D., addresses the increased risks that such residents face of developing certain illnesses related to their PFOA exposure. Per Dr. Ducatman, a medical monitoring program that will detect these potential illnesses as early as possible is necessary to increase the likelihood that these exposed residents will receive earlier treatment and achieve better health outcomes. I have also been asked to assess the value and efficacy of monetary incentives to increase both response and retention rates of medical monitoring program participation.

I have reviewed the following materials:

- Third Amended Complaint (Oct. 2017)
- Dr. Ducatman's Class Certification Expert Report (Sept. 2017)
- Robert Unsworth's Class Certification Expert Report (Sept. 2017)
- Components of Dr. Ducatman's Medical Monitoring Program, to be included in his Merits Expert Report (Nov. - Dec. 2017)
- Vermont Dept. of Health Results of Blood Testing and Exposure Assessment (Sept. 2017)
- Vermont Dept. of Health's Demographic Breakdown of Blood Testing and Exposure Assessment (Nov. 2017)
- State of Vermont PFOA Well Testing Summary (Oct. 2017)
- Plaintiffs' Memorandum in Support of Motion for Class Certification, and Dr. Ducatman's Declarations attached thereto (Oct. 2017)
- C-8 Medical Monitoring Program Materials, including Survey and Website
- Donald Brandt/CTIA's Medical Monitoring Administration and Claims Budget for Dr. Ducatman's Bennington Medical Monitoring Program (Nov. – Dec. 2017)
- Edgar Gentle's Expert Report (Dec. 2017); and his Essay: The Medical Monitoring Tort Remedy (Jan. 2014)
- Peer-reviewed journal articles included in the References section, below.

## Methodology

Cost analysis is a core component of cost-effectiveness analysis, which has been a major focus of my professional career. That field specifies that future costs should be discounted to present value to reflect the time value of money. I enunciated that principle in two of my publications (Shepard and Thompson, 1979; Zeckhauser and Shepard, 1976), which have become seminal works in the field of economic evaluation of health and safety programs.

The latest panel on cost-effectiveness analysis in health, which set forth consensus guidelines for the field, reiterated the fact that future costs should be discounted (Neumann et al. 2017). It further specified that the discount rate should continue to be 3% per year. This present value analysis of the Bennington MMP follows that guideline. Under this discounting, the present value of \$1,000 in 10 years is that amount of money which, if invested at 3% per year compounded, would grow to \$1,000. It turns out that this present value is \$744.

In applying this principle, I analyzed the Medical Monitoring Administration and Claims Budget developed by CTIA. From this, I identified the “participant-based” costs. These are costs that rise in direct proportion to the number of active participants in the MMP. These consist of costs for PFOA testing, clinical examinations and testing, and participant-based administration. The Medical Monitoring Program provides for different diagnostic monitoring for children under age 18, adults, and pregnant women, per the MMP protocols.

In order to calculate the share of active participants in the MMP needing the various services outlined in the program plan, I relied on the demographic data outlined by the Vermont Department of Health’s (VTDOH) Results of Blood Testing and Exposure Assessment in Sept. 2017 (VTDOH, 2017). It is reasonable to assume that the demographic make-up of the individuals who had their blood tested by the VTDOH is representative of the demographic make-up of the exposed Bennington residents who will participate in the MMP. I reserve the right to supplement this report, if necessary and requested, once more definite participation data is known.

Under the Medical Monitoring Program, pregnant women should receive additional examinations and monitoring. To calculate the share of participants who would need this service, I used the latest reported U.S. Centers for Disease Control (CDC) rate of pregnancy in the United States (CDC 2013). The rate is expressed per 1,000 women, aged 15-44, per year.

The Medical Monitoring Program will have a duration of 30 years. Over this period, there is a notable risk that some participants may pass away. To incorporate this fact, I obtained the latest survival tables from the US National Center for Health Statistics (NCHS 2013). These tables are reported separately for males and females. As an illustration, **Exhibit 1** provides the table for males. The table begins with 100,000 males at birth and shows the number that would still be alive at each subsequent age up to age 100, based on current mortality patterns.

I used these tables to obtain age-specific survival tables by year of MMP participant follow up. These were needed because participants could enter the Monitoring Program at any age. For example, the likelihood that a male participant who enters the MMP at age 60 is alive for the MMP round 10 years later is the survival function for a man from age 60 to age 70.

## Analysis

### Participant-Based Costs

I concur with CTIA's assumption that there are likely to be 1,000 participants in the Program, and believe this assumption is reasonable. This assumption is based on the analysis of Robert Unsworth, that there are approximately 2,150 residences and 8,342 residents, in the Zone of Contamination; dividing the total number of residents by the total number of residences yields approximately 3.88 persons per household (Unsworth 2017). Vermont's well-testing data shows approximately 280 wells contaminated above Vermont's drinking water standard (Vt. Well Data 2017). Multiplying 280 wells by 3.88 residents/household yields 1,086.4 residents likely to have PFOA in their blood serum above background levels.

**Exhibit 2** shows the participant-based costs for each year of medical monitoring from Years Two through 30. The cost for a child is \$1,199.20 per cycle. The cost for an adult, excluding pregnancy, is \$1,314.20 per year. The added services for a pregnant woman cost \$300. I have calculated that the rate of pregnancy among women aged 15-44 is 102 per 1,000 per year (CDC 2013). Therefore, the expected cost of pregnancy services is  $\$300 \times 102/1,000$ , which equals \$30.60.

**Exhibit 3** shows the demographic breakdown of the Year One population in the left columns. To calculate the expected number of pregnant women in Year One of the MMP, I note that the share of the population who are women of reproductive age is 10.46%. Applying the rate of 102.0 pregnancies per 1,000

women of reproductive age, I calculate that 1.07% of the participants would be pregnant in Year One. Having calculated that there are 1,000 participants in Year One, this results in 11 expected pregnant participants in Year One (i.e., 1.07% x 1,000) (CDC 2013).

### **MMP Present Value Calculations**

The right columns in **Exhibit 3** show the expected present value cost per participant by sex and age. The overall present value cost of the MMP is \$19,989 per participant of the Medical Monitoring Program, after Year One. With 1,000 participants, the present value follow up costs after year 1 of the Medical Monitoring Program will be \$19,989,000 (i.e., \$19,989 x 1,000). This analysis is reflected in **Exhibit 3**. Adding together the cost of Year One, of approximately \$1,613,804, based on the analysis of CTIA, with the remaining 29 years of the program (\$19,989,000), yields a total present value cost of \$21,602,804.

### **Comments on Incentives**

Monetary incentives have been used in many programs, plans, and surveys to increase both response and retention rates (Hsu, Schmeiser, Haggerty, & Nelson, 2017). Incentives encourage respondents to complete the desired task through a psychological obligation to reciprocate the factor, also seen through the social exchange or reciprocity theory. It was noted that smaller increments of monetary incentives (\$50 or less) did not yield a significant response rate, when compared to no incentives (Reif et al., 2015) (Hsu et al., 2017).

These studies were identified by using Brandeis Academic Search Premiere, a highly regarded database. Key terms (Monetary, Incentive, Medical, Monitoring, and Yield) were entered into the database which brought up many sites. All of these sites could be categorized under the small yield of smaller incentives, and the impact of larger ones. A consensus of the available literature stated that smaller incentives, while they did grab some attention, were not useful in obtaining a high yield (Alexander et al., 2008). It was only when groups used “higher” incentives (\$50 or more), that gave them the best results.

Studies have found that larger increments of incentives have had the best results. Hsu et al., study explores the effects of offering “relatively large pre- and postpaid incentives to hard-to-reach, higher-income households on outcomes related to unit response” (Hsu et al., 2017).

Through randomized assignment of 900 households, subjects were given pre- and post-paid incentives of various amounts. These amounts ranged from \$50, \$100, or \$150 USD cash upon completing the survey, and half of the respondents were given a \$5 cash prepaid incentive with their invitation. In a study by Corning et al., they found that individuals responded by different amounts depending on their socioeconomic status (Groves, Singer, & Corning, 2000). While much of what is known in empirical studies have shown that prepaid incentives (less than \$5) generally yield better results than promised incentives, excessive amounts could lead to the respondents questioning the “intentions of the data-collecting origination” (Church, 1993)(Singer, Van Hoewyk, & Gebler, et al.,1999).

In this blinded study, the interviewers did not know which participants received which incentive. From the individuals who responded, 32.5 % had a prepaid incentive in the invitation, while 25.9 % did not (df=806, p=0.04). Previous studies have found that a \$5 prepaid incentive with a postcard increased participation by 20% (Hsu et al., 2017). This study found that larger incentives yielded higher levels of completed incentives. More people responded to the \$150 incentive than the \$100 incentive, relative to the base incentive of \$50. The greatest number of respondents were found when combining the prepaid incentive/postcard with \$150 postpaid.

The reviewed literature shows that incentives trigger the psychological obligation of reciprocation, and thus give better results when compared to no incentives. Larger postpaid incentives (\$50 or above), should be used in conjunction with prepaid incentives. It should be noted that these incentives were used in medium to high income households.

In addition, according to the Expert Report of Edgar C. Gentle, I note that, in his experience, “participant monetary incentives for each stage of the program are recommended, including program recruitment and registration, and program participation.” (Gentle Report, p, 3). He also recommends paying a pre-program incentive, as well.

I have recommended that class members should be paid an incentive of \$50 for completion of the diagnostic survey and for the initial in-person consultation (with or without the provision of a blood specimen) at the outset of the program for a total payment of \$100 to encourage registration and initial participation. These \$50 payments should continue as noted above in the subsequent years of the MMP to encourage retention in the MMP. With such incentives, the



Bennington Medical Monitoring Program should yield a high participation and retention rate throughout.

### **Summary of Opinions**

Based on the foregoing analysis, and as set forth in the following Exhibits, it is my opinion to a reasonable degree of economic certainty that the present cost of Years Two through Thirty of the Bennington Medical Monitoring Program will be \$19,989,000. Adding together the cost of Year One, based on the analysis of CTIA, with the remaining 29 years of the program, yields a total present value cost of the Bennington MMP of \$21,602,804.

**Exhibits**

Exhibit 1. Life tables for males, 2013

Age, x	Males: Number surviving to age x	Age, x	Males: Number surviving to age x	Age, x	Males: Number surviving to age x
0	100000	34	96926	67	78094
1	99349	35	96770	68	76704
2	99303	36	96612	69	75229
3	99274	37	96448	70	73656
4	99253	38	96276	71	71975
5	99235	39	96097	72	70175
6	99219	40	95906	73	68256
7	99204	41	95705	74	66214
8	99191	42	95489	75	64050
9	99180	43	95257	76	61775
10	99170	44	95007	77	59365
11	99161	45	94734	78	56805
12	99151	46	94436	79	54099
13	99139	47	94111	80	51252
14	99119	48	93753	81	48264
15	99090	49	93359	82	45144
16	99052	67	78094	83	41920
17	99004	68	76704	84	38607
18	98944	69	75229	85	35214
19	98871	70	73656	86	31729
20	98784	71	71975	87	28234
21	98683	72	70175	88	24780
22	98569	73	68256	89	21421
23	98446	74	66214	90	18213
24	98319	75	64050	91	15207
25	98189	76	61775	92	12450
26	98059	77	59365	93	9978
27	97927	78	56805	94	7815
28	97794	79	54099	95	5973
29	97658	80	51252	96	4448
30	97518	81	48264	97	3222
31	97375	82	45144	98	2267
32	97228	66	79412	99	1547
33	97078			100	1023

Source: NCHS (2013).

Exhibit 2. Participant-based cost of medical monitoring per round by age at time of round

	<u>Child&lt;18</u>		<u>Adult male</u>		<u>Female</u>
	Item	Subtotal	Item	Subtotal	15-44 Suppl.
PFOA testing (\$500 every 2 years)		\$250.00		\$250.00	
Clinical services					
Consultation	\$408.00		\$408.00		
Blood draw	\$18.00		\$40.00		
Lab fees	\$232.00		\$325.00		
Total		\$658.00		\$773.00	
Incentives					
Completed survey	\$50.00		\$50.00		
Completed lab	\$50.00		\$50.00		
		\$100.00		\$100.00	
Administration and communications					
CTI administration	\$119.00		\$119.00		
Other administration (e.g. epidemiologist)	\$72.20		\$72.20		
		\$191.20		\$191.20	
Pregnancy-related services (\$300 x 10.2%)					\$30.60
<b>Total</b>		<b>1199.20</b>		<b>1314.20</b>	<b>30.60</b>

Exhibit 3. Estimated population share and present value cost per class member over subsequent years by age and sex at entry

Age at entry	Population share			Cost per class member		
	Male	Female	Combined	Male	Female	Combined
0-4	0.80%	0.40%	1.21%	\$23,698	\$24,022	\$23,806
5-9	1.61%	2.62%	4.23%	\$24,059	\$24,536	\$24,355
10-14	3.42%	1.61%	5.03%	\$24,409	\$25,075	\$24,622
15-19	2.41%	2.21%	4.63%	\$24,740	\$25,503	\$25,105
20-24	1.81%	1.01%	2.82%	\$24,695	\$25,426	\$24,956
25-29	1.01%	1.61%	2.62%	\$24,560	\$25,226	\$24,970
30-34	1.41%	1.01%	2.41%	\$24,327	\$24,938	\$24,581
35-39	1.41%	2.21%	3.62%	\$23,941	\$24,533	\$24,303
40-44	3.42%	2.41%	5.84%	\$23,357	\$23,974	\$23,613
45-49	4.02%	3.22%	7.24%	\$22,535	\$23,285	\$22,868
50-54	3.82%	4.43%	8.25%	\$21,430	\$22,344	\$21,920
55-59	6.24%	5.84%	12.07%	\$19,959	\$20,970	\$20,447
60-64	5.84%	5.43%	11.27%	\$18,025	\$19,099	\$18,543
65-69	7.04%	7.85%	14.89%	\$15,618	\$16,764	\$16,222
70-74	4.23%	3.02%	7.24%	\$12,913	\$14,088	\$13,402
75-79	1.81%	2.62%	4.43%	\$10,172	\$11,306	\$10,842
80-84	0.80%	1.21%	2.01%	\$7,581	\$8,656	\$8,226
85-89	0.20%	0.00%	0.20%	\$5,318	\$6,312	\$5,318
90-94	0.00%	0.00%	0.00%	\$3,517	\$4,270	\$2,596
95-99	0.00%	0.00%	0.00%	\$1,792	\$2,096	\$1,296
All	51.31%	48.69%	100.00%	\$19,700	\$20,295	\$19,989

Source: author's calculation derived from submission by CTIA and Vermont Department of Health (2017).

## References

- Alexander, G. L., Divine, G. W., Couper, M. P., McClure, J. B., Stopponi, M. A., Fortman, K. K., Tolsma, D. D. (2008). Effect of Incentives and Mailing Features on Online Health Program Enrollment. *American Journal of Preventive Medicine*, 34(5): 382-8. <https://www.ncbi.nlm.nih.gov/pubmed/18407004>.
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- Hsu, J. W., Schmeiser, M. D., Haggerty, C., & Nelson, S. (2017). The Effect of Large Monetary Incentives on Survey Completion Evidence from a Randomized Experiment with the Survey of Consumer Finances. *Public Opinion Quarterly*, 81(3), 736-747. <https://doi.org/10.1093/poq/nfx006>.
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Zeckhauser R. J., Shepard, D. S. (1976). Where Now for Saving Lives. Law and Contemporary Problems, 40(4):5-45, 1976.

A handwritten signature in blue ink, reading "D S Shepard", with a long horizontal flourish extending to the right.

Donald Sloane Shepard, Ph.D.

December 15, 2017

December 2017

## **Appendix A: Curriculum Vitae DONALD SLOANE SHEPARD**

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Bibliography:

**EDUCATION**

Ph.D. 1976 HARVARD UNIVERSITY, Kennedy School of Government, in Public Policy.  
M.P.P. 1973 HARVARD UNIVERSITY, Kennedy School of Government, in Public Policy.  
B.A. 1969 HARVARD COLLEGE, Magna cum laude with highest honors, in Applied Mathematics and Economics.

**PRESENT POSITIONS**

1991 - PROFESSOR, Schneider Institutes for Health Policy, Heller School, Brandeis University, Waltham, MA. Direct workgroup on cost and value, leading economic studies in cost-effectiveness analysis, substance abuse, managed care, AIDS, malaria, dengue, health financing, and international health.  
1995 - AFFILIATED FACULTY MEMBER, Center for Alcohol and Addiction Studies, Brown University, Providence, RI.

**PAST POSITIONS**

1995 - 2004 ADJUNCT FACULTY MEMBER, Department of International Health, Boston University School of Public Health, Boston, MA.  
1991 - 1999 HUMAN SERVICES RESEARCH PROFESSOR, Institute for Health Policy, Heller School, Brandeis University, Waltham, MA.  
1992 - 1997 ADJUNCT PROFESSOR, ADJUNCT LECTURER, Department of Health Policy and Management, Harvard School of Public Health, Boston, MA.  
1982 - 1991 ASSOCIATE PROFESSOR of Operations Management and Operations Research, Departments of Health Policy and Management and of Population and International Health, Harvard School of Public Health, Boston, MA.  
1985 - 1991 RESEARCH ASSOCIATE, Harvard Institute for International Development, Cambridge, MA.  
1974 - 1988 MEMBER and RESEARCH ASSOCIATE (1974-76), Institute for Health Research (formerly Center for the Analysis of Health Practices), Harvard School of Public Health.  
1979 - 1986 DIRECTOR OF ECONOMIC RESEARCH, Health Services, Research and Development Service, West Roxbury (MA) Veterans Administration Medical Center.  
1978 - 1981 ADJUNCT RESEARCH ASSOCIATE, Kennedy School of Government, Harvard University, Cambridge, MA.  
1977 - 1981 LECTURER, Department of Health Policy and Management, Harvard School of Public Health, Boston, MA.  
1977 - 1979 SENIOR ECONOMIST, Office of State Health Planning, Massachusetts Department of Public Health, Boston, MA.  
1969 - 1971 GRADUATE RESEARCH ASSISTANT and INSTRUCTOR, Nairobi, Kenya.

**FUNDED RESEARCH PROJECTS (Co- or Principal Investigator of main study or of subcontract)**

2015 - Cost-effectiveness of results-based financing in Zimbabwe. World Bank.  
2015 - Economic impact of adult oral disease. Medicaid State Dental Association/Denta-Quest Foundation.

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2014 - Cost-effectiveness of medical respite services for persons experiencing homelessness. Centers for Medicare & Medicaid Services / National Health Care for the Homeless Council.

2014 - 2015 Cost-effectiveness of results-based financing: toolkit and application to Zambia. World Bank

2014 - Cost-effectiveness of community-based dengue prevention in Nicaragua and Mexico. UBS Foundation / University of California, Berkeley.

2013 - 2014 An economic analysis of the threats posed by the establishment of *Aedes albopictus* in Queensland, Queensland Health, Australia.

2012 Evaluation of SeniorCare in Wisconsin, State of Wisconsin.

2011 - 2014 Provision of frozen embryo donation services (FREDS) in a large IVF clinic. Office of Population Affairs, US Department of Health and Human Services

2011 - Cost-effectiveness of alternative malaria control approaches in Tanzania and Kenya. Bill & Melinda Gates Foundation.

2010 - 2014 Monitoring and evaluation of performance-based financing in the Republic of Congo. World Bank / EPOS Health Management.

2011 - 2015 Brief Interventions in the emergency department for alcohol and HIV sexual risk. NIAAA / Brown University.

2011 - 2013 Economic costs of suicide in the United States. Educational Development Center.

2010 - 2011 Evaluation of performance-based financing in Haiti. Management Sciences for Health.

2010 - 2011 Design of health insurance for The Gambia. International Health Partners, UK.

2009 - 2011 Cost-effectiveness of vector control to help eliminate lymphatic filariasis. Task Force for Global Health.

2009 - 2012 Costing tools for homeless services. Substance Abuse and Mental Health Services Administration/Center for Social Innovation.

2009 - 2011 Intervention Costing Tools for Substance Abuse Treatment. Robert Wood Johnson Foundation (Substance Abuse Policy Research Program).

2008 - 2012 Reinforcing therapist performance. National Institute on Alcoholism and Alcohol Abuse/Chestnut Health Systems.

2008 - 2010 Economic evaluation of embryo donation and adoption, US Department of Health & Human Services/QED Group.

2008 - Economic burden of dengue in Puerto Rico, Malaysia, India, the Americas, Southeast Asia, and globally. Sanofi Pasteur.

2008 - 2013 Economic analysis of control of the Asian tiger mosquito. US Department of Agriculture.

2008 - 2011 Cost-effectiveness of HIV control strategies in Uzbekistan. US Civilian Research and Defense Foundation.

2008 - 2013 Cost and value of hospital accreditation. Joint Commission International.

2008 - 2013 Interventions for welfare clients with AOD disorders. National Institute on Alcoholism and Alcohol Abuse/Columbia University (CASA).

2007 - 2011 High performing community health centers: what it takes, The Commonwealth Fund and Texas Association of Community Health Centers.

2007 - 2008 Cost-effectiveness of pneumococcal pneumonia vaccination in Singapore, Singapore Ministry of Health.

2007 - 2009 Novel approaches for estimating global costs of addressing HIV/AIDS, UNAIDS.

2005 - 2010 Economic analyses for "Enhanced Motivational Intervention with Alcohol Positive Trauma Patients: Cost-Effectiveness," National Institute on Alcoholism and Alcohol Abuse/Brown University.

2005 - 2009 Profiling and Incentives in Behavioral Health Care, National Institute on Drug Abuse.

2004 Workshop on HIV Prevention among Intravenous Drug Users in Uzbekistan, US Civilian Research and Defense Foundation.

2004 Performance Budgeting in Mongolia, Asian Development Bank.

2003 - 2007 Dengue burden of illness studies, Pediatric Dengue Vaccine Initiative and the International Vaccine Institute.

2003 - 2009 Extended Case Monitoring II: Health Costs, National Institute on Alcoholism and Alcohol Abuse/Pacific Institute for Research and Education.



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2003 - 2009 Continuing Care for Alcohol Abuse: Cost-effectiveness Analysis, National Institute on Alcoholism and Alcohol Abuse/University of Pennsylvania.

2003 - 2004 Review of the Massachusetts Behavioral Health Program, National Institute on Alcoholism and Alcohol Abuse.

2003 - 2006 Treatment Needs: Research and Evaluation Specialists, Massachusetts Department of Public Health.

2002 - 2007 Evaluation of State Pharmacy Assistance Waivers in Illinois and Wisconsin, CMS.

2001 - 2006 Policy analysis for the Transdisciplinary Tobacco Use Research Center, RWJF/Lifespan.

2000 - 2009 Medicare Lifestyle Modification Demonstration Evaluation, CMS.

2000 - 2005 Motivation and patch treatment in HIV-positive smokers, National Institute on Drug Abuse.

2000 - 2002 Health financing in Samoa, World Bank.

1999 - 2006 Transdisciplinary Tobacco Use Research Center, National Cancer Institute/Lifespan.

1999 - 2000 Cost-effectiveness of regional health and population services in West and Central Africa, USAID.

1999 - 2000 Design of the Standard Benefit Package for National Health Insurance in Jamaica, InterAmerican Development Bank.

1997 - 2001 Cost-effectiveness of nutritional intervention in AIDS wasting, National Institute on Diabetes, Digestive Diseases, and Kidney Disease.

1997 - 2002 Motivating alcoholics to quit smoking: cost-effectiveness, National Institute on Alcoholism and Alcohol Abuse.

1997 - 2003 Cost-effectiveness of alternative approaches to aftercare for drug patients, National Institute on Drug Abuse.

1996 - 2002 Managed care for Medicaid recipients in Michigan and Massachusetts, National Institute on Alcoholism and Alcohol Abuse.

1996 - 2000 Cost and effectiveness of substance abuse treatment in Connecticut prisons, Robert Wood Johnson Foundation.

1995 - 2000 Hospital costs: a manual for managers, field test and training in Zimbabwe and Egypt, World Health Organization.

1995 Financing health care in Sierra Leone, World Bank.

1994 - 1996 Cost-effective health programs in Tabasco, Tabasco State, Mexico.

1994 Health tourism in Barbados, World Bank.

1994 Increasing the role of private physicians in delivering rural health care in Madagascar, World Bank.

1994 Conference on health and population programs in Cali, Colombia, Rockefeller Foundation.

1994 - 2003 Extended case monitoring for alcohol abuse: cost-effectiveness, National Institute on Alcoholism and Alcohol Abuse.

1993 - 2000 Long term cost-effectiveness of drug abuse treatments, National Institute on Drug Abuse.

1992 - 1996 Cost recovery for health services in Jamaica, US Agency for International Development.

1992 - 1994 Evaluation of the Massachusetts Medicaid Mental Health and Substance Abuse Program, Massachusetts Division of Medical Assistance.

1992 - 1993 Economic analysis of vaccine priorities, World Health Organization.

1991 - 1994 Evaluation of the Carvajal Foundation's Health and Population Program, Rockefeller Foundation.

1991 - 1992 Costs of care of persons with AIDS in Rwanda, World Health Organization.

1990 - 1991 Economic impact of malaria in Africa, US Agency for International Development.

1989 - 1990 Cost-effectiveness of interventions to control of dengue fever, Rockefeller Foundation.

1989 - 1990 Impact of AIDS on hospital costs in a developing country, World Health Organization.

1988 - 1991 COTAIM cost-effectiveness study, National Institutes for Health.

1988 - 1992 Health financing in Rwanda, World Bank.

1988 - 1989 Cost-effectiveness of ambulatory surgery in Cali, Colombia, Rockefeller Foundation.

1985 - 1987 Financial analysis in the Resources for Child Health Project, US Agency for International Development.

1984 Incentives for health promotion in the workplace, Centers for Disease Control.

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- 1984 - 1987 International comparison of biomedical research expenditures, National Institutes of Health.
- 1982 - 1985 Manual for assessing the cost-effectiveness of diarrheal disease programs, World Health Organization.
- 1977 - 1978 Allocation of health resources in Massachusetts, U.S. Department of Health and Human Services.

## **HONORS**

- Albert Nelson Marquis Lifetime Achievement Award, outstanding biographee selected by the editorial board of Marquis Who's Who (August 2017).
- Biographical listing in *Who's Who in America*, 57<sup>th</sup> edition (2003) through 71<sup>st</sup> edition (2017), *Who's Who in the World*, 21<sup>st</sup> edition (2004) through 34<sup>th</sup> edition (2017), and *Who's Who in American Education*, 7<sup>th</sup> Edition (2005), 8<sup>th</sup> Edition (2007), and *Who's Who in the East*, 26<sup>th</sup> Edition (1996), 27<sup>th</sup> Edition (1998). New Providence, NJ: Marquis Who's Who.
- American Society of Tropical Medicine and Hygiene (November 2016). Fellow of the American Society of Tropical Medicine and Hygiene.
- Chair, Initiative on Under-Reporting under International Dengue Vaccine to Vaccination (v2V) Committee and Partnership for Dengue Control (2011-2015).
- Civilian Research and Defense Foundation (CRDF), Success story designation for project on reduction of HIV risk in Uzbekistan through peer counseling (2012). Web: <http://www.crdfglobal.org/news-and-events/success-stories/peer-to-peer-approach-greatly-reduces-risk-of-hiv-infection>.
- Dengue Matters* guest editor, Special issue on economic burden of dengue, *Dengue Matters*, v2V (Vaccine to Vaccination Organization), Issue 2 (June 2011).
- Dengue Bulletin* guest editor, Special issue on disease burden, *Dengue Bulletin*, World Health Organization, Southeast Asian Regional Office (2010).
- American Association of Cardiovascular and Pulmonary Rehabilitation (AACVPR) Co-author of "Paper of the Year" (2009).
- Mental Health and Substance Abuse Corporations of America, Inc., Distinguished Service Award (2006).
- National Science Foundation Graduate Fellowship (1971-1974).
- Phi Beta Kappa, Harvard College Chapter (Alpha of Massachusetts, 1969- ).
- John Harvard Scholarship (honorary), Harvard College (1966-1969).

## **BOARDS AND PROFESSIONAL ASSOCIATIONS**

- Professional memberships: International Health Economics Association (2004-present), American Society for Tropical Medicine and Hygiene (2010-present), Partnership for Dengue Control, formerly Vaccine to Vaccination (v2V) for dengue vaccine (2010-present).
- Member of Initial Review Group, Director's Office, Behavioral and Social Sciences for HIV/AIDS, National Institutes of Health (Ad hoc member 2006-2008; full or ad hoc member 2008 - ).
- Member of the Strategic and Technical Advisory Group, Neglected Tropical Disease Control Program, World Health Organization, Geneva, Switzerland (2008 - 2011).
- Member of Alumni Council, Phillips Academy, Andover, MA (2006-2009).
- Member of Initial Review Group, National Institutes of Health, Research on AIDS and International Training, ad hoc, (2005).
- Behavioral Health Advisory Committee, MassHealth Behavioral Health Program, Commonwealth of Massachusetts (2004-2010).
- Member of Initial Review Group, Health Services Research Subcommittee, National Institute on Drug Abuse (2004-2006).
- Executive Committee of the Board of Councilors, Pediatric Dengue Vaccine Initiative, PDVI (2004-2005).
- Board of Councilors, Pediatric Dengue Vaccine Initiative, PDVI (2002-2005).
- Scientific Advisory Council, Albert B. Sabin Vaccine Institute (1994-2005).
- Health Services Research Study Section, National Institute on Alcohol Abuse and Alcoholism (1998-2002).
- Expert Review Panel, Spending Estimates Study, SAMHSA (1998-2000).
- Urban Health Issues Work Group, Center for Substance Abuse Prevention (1993-1994).
- Working Group on Children's Vaccine Initiative, Institute of Medicine (1992).

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Public Policy Advisory Committee, American Foundation for AIDS Research (1991- 1995).  
 Advisory Panel, Social Response Track, VIII International AIDS Conference (1991-1992).  
 Scientific Review Panel, National Institute of Allergy and Infectious Diseases, NIH (1991-1992).  
 Advisory Committee on Preventive Services for the Elderly, Office of Technology Assessment, U.S. Congress (1988-1989).  
 National Panel of Arbitrators, American Arbitration Association (1982-1994).  
 Editorial Board: *Evaluation and Program Planning: An International Journal* (1977-1992).  
 Reviewer for: *American Journal of Managed Care, American Journal of Public Health, American Journal of Tropical Medicine and Hygiene, Science, Annals of Epidemiology, Drug and Alcohol Dependence, Health Care Management Science, International Journal for Quality in Health Care, JAMA, Journal of Health Economics, Milbank Memorial Fund Quarterly, PLoS Neglected Tropical Diseases, Review of Economics and Statistics, Social Science and Medicine, Vaccine.*

### **FOREIGN LANGUAGES**

French (very good speaking, reading and writing), Spanish (limited), German (limited), Swahili (limited).

### **INTERNATIONAL EXPERIENCE**

Countries include: Afghanistan, Australia, Bangladesh, Barbados, Belgium, Botswana, Brazil, Cambodia, Cameroon, Canada, China, Colombia, Cuba, Democratic Republic of Congo, Ecuador, Egypt, France, Gambia, Ghana, Haiti, Honduras, India, Indonesia, Ivory Coast, Jamaica, Jordan, Kenya, Korea, Lesotho, Madagascar, Malaysia, Maldives, Mexico, Mongolia, Panama, Philippines, Republic of Congo, Russia, Rwanda, Samoa, Senegal, Sierra Leone, Singapore, Switzerland, Tanzania, Thailand, Uganda, United States, Uzbekistan, Vietnam, Zambia, and Zimbabwe.

Assignments include: cost-effectiveness analysis, health financing analysis, evaluation, policy analysis, and lecturing on these topics in English and French.

Sponsors include: Asian Development Bank, Blue Cross of Massachusetts, Inc., Carvajal Foundation, Civilian Research and Defense Foundation, Department of Finance for International Development (UK), Centers for Medicare & Medicaid Services (CMS), Gates Foundation, International Health Partners (UK), Pan American Health Organization, Rockefeller Foundation, Robert Wood Johnson Foundation, Singapore Ministry of Health, United Nations Development Program, UNAIDS, UNICEF, U.S. Agency for International Development, U.S. Department of Health and Human Services, U.S. Department of Veterans Affairs, U.S. Environmental Protection Administration, U.S. Substance Abuse and Mental Health Services Administration, State of Wisconsin, World Bank, World Health Organization.

### **PUBLICATIONS (in reverse chronological order by type)**

#### **BOOKS**

- B3. Shepard DS. Lifestyle Modification to Control Heart Disease: Evidence and Policy. Sudbury, MA: Jones & Bartlett, 2010.
- B2. Shepard DS, Hodgkin D, Anthony YE. Analysis of Hospital Costs: A Manual for Managers. Geneva, Switzerland, World Health Organization, 2000 (ISBN 92 4 154528 3). [Note: Earlier version also published in Mandarin Chinese under The Network for Training and Research in Health Economics and Financing (Bian Ying, translator). Jinan, Shandong Province, China: Shandong Medical University, National Institute of Hospital Cost Accounting, School of Public Health, 1998.]

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- B1. Phillips M, Shepard DS, Lerman S, Cash RA. Assessing Costs for Cost-effectiveness Analysis (CDD/SER/88.3). Program for Control of Diarrheal Diseases, World Health Organization, Geneva, Switzerland, 1988. [Also published in Spanish as: Phillips M, Shepard DS, Lerman S, Cash, RA: Estimación de Costos para Analizar Costo Eficacia. Lineamientos para los Responsables de los Programas de Control de Enfermedades Diarreicas. Washington, DC: Programa de Control de Enfermedades Diarreicas, Organización Panamericana de la Salud (Pan American Health Organization), 1990.]

#### **ARTICLES IN REVIEWED JOURNALS**

- R181 Zeng W, Halasa-Rappel YA, Baurin N, Coudeville L, Shepard DS. Cost-effectiveness of dengue vaccination in ten endemic countries. *Vaccine*. 2018. 36(3): 413-420.
- R180 Zeng W, Halasa YA, Cros M, Akhter H, Nandakumar AK, Shepard DS. Costing essential services package provided by a non-governmental organization network in Bangladesh. *Health Policy & Planning*. 2017, 1–11. Web: <http://doi: 10.1093/heapol/czx105>.
- R179 Herricks JR, Hotez PJ, Wanga V, Coffeng LE, Haagsma JA, Basanez M-G, Buckle G, Budke CM, Carabin H, Fèvre EM, Fürst T, Halasa YA, King CH, Murdoch ME, Ramaiah KD, Shepard DS, Stolk WA, Undurraga EA, Stanaway JD, Naghavi M, Murray CL. The global burden of disease study 2013: What does it mean for the NTDs? *PLoS Neglected Tropical Diseases*. 2017, **11**(7): e0005424. Web: <http://doi.org/10.1371/journal.pntd.0005424>. Web: [https://www.researchgate.net/publication/319113439\\_The\\_global\\_burden\\_of\\_disease\\_study\\_2013\\_What\\_does\\_it\\_mean\\_for\\_the\\_NTDs](https://www.researchgate.net/publication/319113439_The_global_burden_of_disease_study_2013_What_does_it_mean_for_the_NTDs).
- R178 Darbro J, Halasa Y, Montgomery B, Muller J, Shepard DS, Devine G, Mwebaze P. An economic analysis of the threats posed by the establishment of *Aedes albopictus* in Brisbane, Queensland. *Ecological Economics*. 2017, **142**:203–213. Web: <http://dx.doi.org/10.1016/j.ecolecon.2017.06.015>.
- R177 Undurraga EA, Edillo FE, Erasmo JNV, Alera MTP, Yoon IK, Largo FM, Shepard DS. Disease burden of dengue in the Philippines: Adjusting for underreporting by comparing active and passive dengue surveillance in Punta Princesa, Cebu City. *American Journal of Tropical Medicine and Hygiene*. 2017, **96**(4):887-898. Web: <https://doi.org/10.4269/ajtmh.16-0488>.
- R176 Idrisov B, Murphy SM, Morrill T, Saadoun M, Lunze K, Shepard DS. Implementation of methadone therapy for opioid use disorder in Russia – A modeled cost-effectiveness analysis. *Substance Abuse Treatment, Prevention, and Policy*. 2017, **12**:4. Web: <https://doi: 10.1186/s13011-016-0087-9>.
- R175 Ades PA, Keteyian SJ, Wright JS, Hamm LF, Lui K, Newlin K, Shepard DS, Thomas RJ. Increasing cardiac rehabilitation participation from 20% to 70%: A road map from the Million Hearts Cardiac Rehabilitation Collaborative. *Mayo Clinic Proceedings*. 2017; **92**(2):234-242. Web: <http://dx.doi.org/10.1016/j.mayocp.2016.10.014>.
- R174 GBD 2015 Mortality and Causes of Death Collaborators (include Halasa YA, Shepard DS, Undurraga E). Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980–2015: A systematic analysis for the Global Burden of Disease Study 2015. *The Lancet*. 2016; **388**: 1459–544. Web: [http://thelancet.com/pdfs/journals/lancet/PIIS0140-6736\(16\)31012-1.pdf](http://thelancet.com/pdfs/journals/lancet/PIIS0140-6736(16)31012-1.pdf).

- R173 Mtove G, Mugasa JP, Messenger LA, Malima RC, Mangesho P, Magogo F, Plucinski M, Hashimu R, Matowo J, Shepard DS, Batengana B, Cook J, Emidi B, Halasa Y, Kaaya R, Kihombo A, Lindblade KA, Makenga G, Mpangala R, Mwambuli A, Mzava R, Mziray A, Olang G, Oxborough RM, Seif M, Sambu E, Samuels A, Sudi W, Thomas J, Weston S, Alilio M, Binkin N, Gimnig J, Kleinschmidt I, McElroy P, Moulton LH, Norris L, Ruebush T, Venkatesan M, Rowland M, Mosha FW and Kisinza WN. The effectiveness of non-pyrethroid insecticide-treated durable wall lining to control malaria in rural Tanzania: Study protocol for a two-armed cluster randomized trial. *BMC Public Health*. 2016; **16**:633. doi:10.1186/s12889-016-3287-3.
- R172. Shepard DS, Undurraga EA, Halasa YA, Stanaway JD. The global economic burden of dengue: A systematic analysis. *Lancet Infectious Diseases*. 2016, **16**(8):935-41 Web: [http://dx.doi.org/10.1016/S1473-3099\(16\)00146-8](http://dx.doi.org/10.1016/S1473-3099(16)00146-8). (PMID: 2709109).
- R171. Stason WB, Ritter GA, Martin T, Prottas J, Tompkins C, Shepard DS. Effects of expanded coverage for chiropractic services on Medicare costs in a CMS demonstration. *PLoS ONE*. 2016, **11**(2): e0147959. doi:10.1371/journal.pone.0147959, Web: <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0147959>. (PMID: 26928221), (PMCID: PMC4771157).
- R170. Tiga DC, Undurraga EA, Ramos-Castañeda J, Martínez R, Tschampl CA, Shepard DS. Persistent symptoms of dengue: Estimates of the incremental disease and economic burden in Mexico. *American Journal of Tropical Medicine and Hygiene*. 2016, **94**(5):1083-1089. (PMID: 26976885).
- R169. Thalagala N, Tissera H, Palihawadana P, Amarasinghe A, Ambagahawita A, Wilder-Smith A, Shepard DS, Tozan Y. Costs of dengue control activities and hospitalizations in the public health sector during an epidemic year in urban Sri Lanka. *PLoS Neglected Tropical Diseases*. 2016, **10**(2): e0004466. Web: <http://www.plosntds.org/article/info:doi/10.1371/journal.pntd.0004466>. (PMID: 26910907), (PMCID: PMC4766086).
- R168. Stanaway JD, Shepard DS, Undurraga EA, Halasa YA, Coffeng LE, Brady OJ, Hay SI, Bedi N, Bensenor IM, Castañeda-Orjuela CA, Wu-Chuang T-W, Gibney KB, Memish ZA, Rafay A, Ukwaja KN, Yonemoto N, Murray CJL. The Global Burden of Dengue: A systematic analysis from the Global Burden of Disease Study 2013. *Lancet Infectious Diseases*. 2016, **16**(6):712–723. Web: [http://dx.doi.org/10.1016/S1473-3099\(16\)00026-8](http://dx.doi.org/10.1016/S1473-3099(16)00026-8); also Web: [http://www.thelancet.com/journals/laninf/article/PIIS1473-3099\(16\)00026-8/abstract](http://www.thelancet.com/journals/laninf/article/PIIS1473-3099(16)00026-8/abstract) and Web: <http://www.sciencedirect.com/science/article/pii/S1473309916000268>.
- R167. Tschampl CA, Garnick DW, Zuroweste E, Razavi M, Shepard DS. Use of transnational services to prevent treatment interruption in tuberculosis-infected persons who leave the United States. *Emerging Infectious Diseases*. 2016, **22**(3):417-425. Web: <http://dx.doi.org/10.3201/eid2203.141971>. (PMID: 26886720), (PMCID: PMC4766910).
- R166. Shepard DS, Lwin AK, Barnett NP, Mastroleo N, Colby SM, Gwaltney C, Monti PM. Cost-effectiveness of motivational intervention with significant others for patients with alcohol misuse. *Addiction*. 2016, **111**(5):832-839. doi: 10.1111/add.13233 (PMID: 26574195).
- R165. Shepard DS, Daley MC, Neuman MJ, Blaakman AP, McKay JR. Telephone-based counseling in substance abuse treatment: Economic analysis of a randomized trial. *Drug and Alcohol Dependence*. 2016, **159**:109–116. ISSN 0376-8716. Web: <http://dx.doi.org/10.1016/j.drugalcdep.2015.11.034>. (PMID: 26718395; NIHMSID 745000)



- R164. Zeng W, Shepard DS, Avila-Figueroa C, Ahn H. Resource needs and gap analysis in achieving universal access to HIV/AIDS services: A data envelopment analysis of 45 countries. *Health Policy and Planning*. 2016, **31**(5):624-633, doi: 10.1093/heapol/czv109. (PMID: 26552409).
- R163. Shepard DS, Gurewicz D, Lwin AK, Reed GA, Silverman MM. Suicide and suicidal attempts in the United States: Costs and policy implications. *Suicide and Life Threatening Behaviors*. 2016, **43**(3):352-362. doi: 10.1111/sltb.12225. (PMID: 26511788). Web: <http://onlinelibrary.wiley.com/doi/10.1111/sltb.12225/epdf>
- R162. Packierisamy PR, Ng C-W, Dahlui M, Inbaraj J, Balan VK, Halasa YA, Shepard DS. The cost of dengue vector control activities in Malaysia. *American Journal of Tropical Medicine and Hygiene*. 2015, **93**(5):1020-1027. doi: 10.4269/ajtmh.14-0667. (PMID: 26416116).
- R161. Global Burden of Disease 2013 Collaborators. Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990–2013: A systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*. 2015, **386**: 743–800. Web: [http://dx.doi.org/10.1016/S0140-6736\(15\)60692-4](http://dx.doi.org/10.1016/S0140-6736(15)60692-4).
- R160. Packierisamy PR, Ng C-W, Dahlui M, Venugopalan B, Halasa YA, Shepard DS. The cost of dengue vector control activities in Malaysia by different service providers. *Asia-Pacific Journal of Public Health*. 2015, doi: 10.1177/1010539515589339 [aph.sagepub.com](http://aph.sagepub.com). (PMID: 26047628).
- R159. Undurraga EA, Betancourt-Cravioto M, Ramos-Castañeda J, Martínez-Vega R, Méndez-Galván J, Gubler DJ, Guzman MG, Halstead SB, Harris E, Kuri-Morales P, Tapia-Conyer R, Shepard DS. Economic and disease burden of dengue in Mexico. *PLOS Neglected Tropical Diseases*. 2015, **9**(3):e0003547. doi: 10.1371/journal.pntd.0003547. (PMID: 25786225) (PMCID: PMC4364886).
- R158. Halasa YA, Zeng W, Chappy E, Shepard DS. Value and impact of international hospital accreditation: A case study from Jordan. *Eastern Mediterranean Health Journal*. 2015, **21**(2):90-99. (PMID: 25876820).
- R157. Edillo F, Halasa Y, Largo F, Erasmo JN, Amoin N, Alera MT, Yoon IK, Alcantara A, Shepard DS. Economic cost and burden of dengue in the Philippines. *American Journal of Tropical Medicine & Hygiene*. 2015, **92**(2):360–366. doi:10.4269/ajtmh.14-0139. (PMID: 25510723), (PMCID: PMC4347342). Web: <http://www.ajtmh.org/content/92/2/360.full> Supplement: Web: <http://www.ajtmh.org/content/suppl/2015/02/04/ajtmh.14-0139.DC5/SD5.pdf>.
- R156. GBD 2013 Mortality and Causes of Death Collaborators. Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990–2013: A systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*. 2014, **385**(9963):117-171. (PMCID: PMC4340604.) Web: [http://www.thelancet.com/pdfs/journals/lancet/PIIS0140-6736\(14\)61682-2.pdf](http://www.thelancet.com/pdfs/journals/lancet/PIIS0140-6736(14)61682-2.pdf).
- R155. Gaalema DE, Higgins ST, Shepard DS, Suaya JA, Savage PD, Ades PA. State-by-state variations in cardiac rehabilitation participation are associated with educational attainment, income, and program availability. *Journal of Cardiopulmonary Rehabilitation and Prevention*. 2014, **34**(4), 248–254. <http://doi.org/10.1097/HCR.000000000000059>. (PMID: 24820451), (PMCID: PMC4098712).
- R154. Razavi M, Fournier S, Shepard DS, Ritter G, Strickler GK, Stason WB. Effects of lifestyle modification programs on cardiac risk factors. *PLOS ONE*. 2014, **9**(12): e114772. doi:10.1371/journal.pone.0114772. (PMID: 25490202), (PMCID: PMC4260956).

- R153. Razavi M, Shepard DS, Suaya JA, Stason WB. Postoperative *Staphylococcus aureus* infections in Medicare beneficiaries. *PLOS ONE*. 2014, **9**(11):e110133. doi: 10.1371/journal.pone.0110133. eCollection. (PMID: 25389782), (PMCID: PMC4229085). Web: <http://dx.plos.org/10.1371/journal.pone.0110133>.
- R152. Shepard DS, Undurraga EA, Betancourt-Cravioto M, Guzman MG, Halstead SB, Harris E, Mudin RN, Murray KO, Tapia-Conyer, Gubler DJ. Approaches to refining estimates of global burden and economics of dengue. *PLOS Neglected Tropical Diseases*. 2014, **8**(11): e3306. doi:10.1371/journal.pntd.0003306. (PMID: 25412506), (PMCID: PMC4238988).
- R151. Shepard DS, Halasa YA, Fonseca DM, Farajollahi A, Healy SP, Gaugler R, Bartlett-Healy K, Strickman DA, Clark GG. Economic evaluation of an area-wide integrated pest management program to control the Asian tiger mosquito in New Jersey. *PLoS ONE*. 2014, **9**(10): e111014. doi:10.1371/journal.pone.0111014. (PMID: 25338065), (PMCID: PMC4206470).
- R150. Shepard DS, Halasa YA, Tyagi BK, Adhish V, Nandan D, Karthiga KS, Chellaswamy V, Gaba M, Arora NK, the INCLEN Study Group. Economic and disease burden of dengue illness in India. *American Journal of Tropical Medicine and Hygiene*. 2014, **91**(6):1235-1242. doi:10.4269/ajtmh.14-0002. (PMID: 25294616), (PMCID: PMC4257651).
- R149. Tyagi BK, Karthiga S, Vidya C, Arora NK, Nandan D, Halasa YA, Charles J, Mohan N, Varadarajan P, Mariappan T, Samuel PP, Paramasivan R, Adhish SV, Gaba M, Porkaipandianh RT, Shepard DS. Estimation of the adjustment factor for hospitalized clinically cases diagnosed and tested for dengue in Madurai Tamil Nadu (India). *Dengue Bulletin*. 2014, **38**:20-32. (ISSN 0250-8362).
- R148. Hotez PJ, Alvarado M, Basáñez M-G, Bolliger I, Bourne R, Boussinesq M, Brooker SJ, Brown AS, Buckle G, Budke CM, Carabin H, Coffeng LE, Fèvre EM, Fürst T, Halasa YA, Jasrasaria R, Johns NE, Keiser J, King CH, Lozano R, Murdoch ME, O'Hanlon S, Pion SDS, Pullan RL, Ramaiah KD, Roberts T, Shepard DS, Smith JL, Stolk, WA, Undurraga EA, Utzinger J, Wang M, Murray CJL, Naghavi M. The Global Burden of Disease Study 2010: Interpretation and implications for the neglected tropical diseases. *PLoS Neglected Tropical Disease*. 2014, **8**(7): e2865. doi:10.1371/journal.pntd.0002865 [July 24, 2014] (PMID: 25058013), (PMCID: PMC4109880).
- R147. Halasa YA, Shepard DS, Fonseca DM, Farajollahi A, Healy S, Gaugler R, Bartlett-Healy K, Strickman D, Clark GG. Quantifying the impact of mosquitoes on quality of life and enjoyment of yard and porch activities in New Jersey. *PLoS ONE*. 2014, **9**(3): e89221. doi:10.1371/journal.pone.0089221. (PMID: 24603670), (PMCID: PMC3945781).
- R146. Turk-Adawi KI, Oldridge NB, Tarima SS, Stason WB, Shepard DS. Cardiac rehabilitation enrollment among referred patients: Patient and organizational factors. *Journal of Cardiopulmonary Rehabilitation and Prevention*. 2014, **34**(2):114-122. (PMID: 24142042, ISSN 1932-7501).
- R145. Turk-Adawi KI, Oldridge NB, Tarima SS, Stason WB, Shepard DS. Cardiac rehabilitation patient and organizational factors: What keeps patients in programs? *Journal of the American Heart Association*. 2013; **2**:e000418. (doi: 10.1161/JAHA.113.000418; Online ISSN: 2047-9980). (PMID: 24145743), (PMCID: PMC3835256).
- R144. Zeng W, Rwiyereka AK, Amico P, Avila-Figueroa C, Shepard DS. Efficiency of HIV/AIDS health centers and the effect of community-based health insurance and performance-based financing on HIV/AIDS service delivery in Rwanda. *American Journal of Tropical Medicine and Hygiene*. 2014, **90**(4):740–746. doi:10.4269/ajtmh.12-0697e. (PMID: 24515939), (PMCID: PMC3973523).

- R143. Ryan M, Suaya J, Chapman JD, Stason WB, Shepard DS, Thomas CP. Incidence and cost of pneumonia in older adults with COPD in the United States. *PLoS ONE*. 2013, **8**(10): e75887. doi:10.1371/journal.pone. (PMID: 24130749), (PMCID: PMC3794002).
- R142. Zeng W, Stason WB, Fournier S, Razavi M, Ritter G, Strickler GK, Bhalotra SM, Shepard DS. Benefits and costs of intensive lifestyle modification programs for symptomatic coronary disease in Medicare beneficiaries. *American Heart Journal*. 2013, **165**(5):785-792. (doi: 10.1016/j.ahj.2013.01.018. (PMID: 23622916).
- R141. Shepard DS, Undurraga EA, Halasa YA. Economic and disease burden of dengue in Southeast Asia. *PLoS Neglected Tropical Diseases*. 2013, **7**(2): e2055. doi: 10.1371/journal.pntd.0002055. (PMID: 23437406), (PMCID: PMC3578748). Web: <http://www.plosntd.org/article/info:doi/10.1371/journal.pntd.0002055>.
- R140. Undurraga EA, Halasa YA, Shepard DS. Use of expansion factors to estimate the burden of dengue in Southeast Asia: A systematic analysis. *PLoS Neglected Tropical Diseases*. 2013, **7**(2): e2056. (doi:10.1371/journal.pntd.0002056). (PMID: 23437407), (PMCID: PMC3578761). Web: <http://www.plosntd.org/article/info:doi/10.1371/journal.pntd.0002056>.
- R139. Tyo KR, Gurewich D, Shepard DS. Methodological challenges of measuring primary care delivery to pediatric Medicaid beneficiaries who use community health centers. *American Journal of Public Health*. 2013, **103**:273–275. (doi: 10.2105/AJPH.2012.300884). (PMID: 23237184), (PMCID: PMC3558788). Web: <http://ajph.aphapublications.org/doi/pdfplus/10.2105/AJPH.2012.300884>.
- R138. Gurewich D, Sirkin JT, Shepard DS. On-site provision of substance abuse treatment services at community health centers. *Journal of Substance Abuse Treatment*. 2012, **42**(4):339-345. doi: 10.1016/j.jsat.2011.09.012. (PMID: 22116010).
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#### **SELECTED CONFERENCE PAPERS AND TECHNICAL REPORTS**

- P282 Zeng W, Halasa-Rappel YA, Coudeville L, Baurin N, Shepard DS. Cost-effectiveness of dengue vaccination in ten endemic countries. Presented at the 66th Annual Meeting of the American Society of Tropical Medicine & Hygiene, Baltimore, MD, Nov. 7, 2017.
- P281 Shepard DS, Halasa-Rappel YA, Zeng W, Durand L, Coudeville L. Empirical estimates of disability burden of a symptomatic dengue episode. Presented at the 66th Annual Meeting of the American Society of Tropical Medicine & Hygiene, Baltimore, MD, Nov. 6, 2017.
- P280 Shepard DS. Halasa-Rappel YA, Halaseh IA, Fardous T, Jrasat M, Abu-Shaer M. Cost and financial impact of expanding insurance coverage to vulnerable Jordanians and Syrian refugees. Presented to His Excellency Professor Mahmoud Sheyab, Minister of Health, Ministry of Health, Amman, Jordan, Oct. 2, 2017.
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- P278 Shepard DS, Zeng W, Mutasa R, Das A, Sisimayi, Shamu S, Banda S, Nguyen H, Friedman J. Cost-effectiveness of results-based financing in Zimbabwe: results from a controlled trial. Presented at 2017 iHEA Biennial World Congress, Boston, MA, July 8-11, 2017.
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- P275. Shepard DS. Dengue global/regional economic costs and value of cost effectiveness studies. Presented at Eliminate Dengue Health Economics Framework Workshop, Singapore, June 6, 2017.
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- P271. Shepard DS, Halasa YA, Kihombo A, Kihomo R, Mangesho P, Messenger L, Mnzava R, Mtove G, Mugasa JP, Seif M, Kisinza WN. Cost-effectiveness of durable liner and indoor residual spraying to prevent malaria in Kenya and Tanzania. Presented as eposter 3179 at Fourth Global Symposium on Health Systems Research, Vancouver, BC, Canada, Nov. 14-18, 2016. Available at: <http://epostersonline.com/gshr2016/node/3652?view=true>.
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- P268 Shepard DS, Halasa YA, Kihombo A, Kihomo RM, Mangesho P, Messenger L, Mnzava R, Mtove G, Mugasa J, Seif M, Kisinza W. Cost-effectiveness of insecticide-treated wall liner and indoor residual spraying to prevent malaria in Kenya and Tanzania (Poster number 1665). Presented at the 65<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine & Hygiene, Atlanta, GA, Nov. 16, 2016. Available at: <http://www.abstractsonline.com/pp8/#!/4114/presentation/4621>.
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- P266 Shepard DS. Vector control costings--review of the literature. Presented at Global Vector Control Response Steering Committee Meeting, World Health Organization, Geneva, Switzerland, Oct. 4, 2016 (via video).
- P265 Shepard DS; Zeng W, Banda S. Cost-effectiveness analysis of results-based financing in Zimbabwe. Presented at Results-Based Financing (RBF) Health. Cresta Hotel, Harare, Zimbabwe, Sept. 20, 2016.
- P264 Shepard DS. Experiences and lessons on developing health financing policies in LMICs. Presented at Health Financing Policy Development: High-level Consultation Meeting, Bronte Hotel, Harare, Zimbabwe, Sept. 15, 2016.
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- P258. Neal M, Shepard D, Feller C, DeLigt H. You receive federal funding! Why should we support you? How would you answer that question? Presented at the 2016 National Health Care for the Homeless Conference & Policy Symposium, Portland, OR, May 31, 2016.
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- P255. Shepard DS. Provider payment mechanisms and implications for sustaining the provision of quality services (4 PBF). Presented at Health Financing Reforms in the Eve of Sustainable Development Goals, Kigali, Rwanda (via video), March 30, 2016.
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- P244. Shepard DS. The global economic cost of dengue. Presented at Public Health in the 21st Century: A case study of dengue. Harvard T.H. Chan School of Public Health, Boston, MA, July 8, 2015.
- P243. Shepard DS. Design of cost-effectiveness study of results-based financing in Zimbabwe. Presented at the World Bank Brown Bag Lunch on Results-Based Financing in Zimbabwe, Harare, Zimbabwe, July 2, 2015.
- P242. Shepard DS, Zeng W. Cost-effectiveness analysis of results-based financing programs: A toolkit for task teams. Presented at the World Bank Training Seminar, Washington, DC, June 15, 2015.
- P241. Shepard DS. Cost-effectiveness and cost-benefit of CHWs: examples from environmental control and maternal health. Presented at Financing Community Health Worker Systems at Scale in Sub-Saharan Africa. Accra, Ghana, June 10, 2015.
- P240. Shepard DS, Zeng W, Nguyen HTH. 2015. Cost-effectiveness analysis of results-based financing programs: a toolkit. Health, Nutrition, and Population (HNP) discussion paper. Washington, D.C.: World Bank Group, May 1, 2015. <http://documents.worldbank.org/curated/en/2015/09/25069701/cost-effectiveness-analysis-results-based-financing-programs-toolkit> [see also M015].
- P239. Shepard DS, Sewankambo N. Pilot SMS Mother Reminder System evaluation in Gulu: design and current status. Presented at Technical Review Meeting, Mother Reminder Project, Uganda Ministry of Health, Gulu, Uganda, April 2, 2015.
- P238. Shepard DS, Halasa Y, Mangesho P, Kihombo A, Kihomo R, Seif M, Mnzava R, Tenu F, Makerere C, Mugasa J, Mtove G, Rowland M, Malima R, Rowland M, Kisinza, W. Tanzanian household and government expenditures for malaria treatment from a population-based survey. Fifth East African Health and Scientific Research Conference, Kampala, Uganda, March 25-27, 2015.
- P237. Shepard DS. Economic burden of dengue. Presented at meeting of the Americas Dengue Prevention Board, March 16-17, 2015, Bogota, Colombia.
- P236. Shepard DS, Halasa Y, Mangesho P, Kihombo A, Kihomo R, Seif M, Mnzava R, Tenu F, Makerere C, Mugasa J, Kisinza W. Cost-effectiveness of insecticide-treated durable wall liners and indoor residual spraying for malaria control in rural Tanzania. TRAction Scientific Review Panel, Jan. 11, 2015, Tanga, Tanzania.

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- P235. Shepard DS, Tschampl C. Homeless services costing tool: software and webinar. National Health Care for the Homeless Council, Dec. 11, 2014, Nashville, TN (via web). Web: <https://www.nhchc.org/2014/11/a-costing-tool-you-can-use-demonstrating-the-value-of-services-for-people-experiencing-homelessness/>
- P234. Shepard DS. Burden and economic cost associated with health system congestion due to dengue outbreaks, an update. Presented at World Health Organization Meeting on Dengue Burden, Nov. 7-8, 2014, New Orleans, LA.
- P233. Shepard DS, Halasa YA, Undurraga EA. Cost of Dengue Vector Control: Systematic Literature Review. Presented at: 63rd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 2-6, 2014, New Orleans, LA, poster 836.
- P232. Shepard DS, Halasa YA, Undurraga EA. Global Cost of Dengue in the Professional Healthcare System. Presented at: 63rd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 2-6, 2014, New Orleans, LA, poster 203.
- P231. Shepard DS, Mangesho P, Mpagala Kihomo R, Kihombo A, Mugasa J, Malongo A, Mnzava R, Tenu F, Rwiyerika AK, Halasa YA, Samuels AM, Rowland M, Mosha F, Kisinza W. Household expenditures for malaria treatment from a population-based survey. Presented at: 63rd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 2-6, 2014, New Orleans, LA.
- P230. Shepard DS. Social health protection in East Africa. Presented at Validation Workshop on Social health protection in East African Partner States, Kigali, Rwanda, July 7, 2014.
- P229. Shepard DS. Cost burden of dengue in Asia Pacific. Presented at ASEAN Dengue Day Symposium, June 14, 2014, Clark (Manila), Philippines.
- P228. Shepard DS. Burden and economic cost associated with health system congestion due to dengue outbreaks. Presented at World Health Organization Meeting on Dengue Burden, June 10, 2014, Geneva, Switzerland.
- P227. Shepard DS, Rusatira JDD, Zeng W, Blaakman AP. Impact of performance-based financing in Republic of Congo, May 30, 2014, Presented at Project Closure Workshop, Ministry of Health, Brazzaville, Republic of Congo.
- P226. Shepard DS, Mangesho P, Kihomo RM, Kihombo A, Mugasa J, Malongo A, Mnzava R, Tenu F, Rwiyerika AK, Halasa YA, Samuels AM, Rowland M, Mosha F, Kisinza W. Household expenditures for malaria treatment from a population-based survey. Presented at 28th Annual Joint Scientific Conference, National Institute for Medical Research, April 22-24, 2014, Dar es Salaam, Tanzania.
- P225. Shepard DS, Tschampl C. Costing of healthcare services for the homeless. Presented to workshop organized for the National Council on Healthcare for the Homeless at Brandeis University, March 12, 2014, Waltham, MA.
- P224. Rwiyerika AK, Shepard DS. Social health protection in East Africa: inception of situational analysis and feasibility study. Presented to Health Secretariat, East African Community, Feb. 21, 2014, Arusha, Tanzania.

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- P223. Halasa YA, Shepard DS, Fonseca DM, Farajollahi A, Healy S, Gaugler R, Bartlett-Healy K, Strickman D, Clark GG. Economic evaluation of an integrated pest management to control the Asian tiger mosquito. Presented at the Northeastern Mosquito Control Association 11th Annual Meeting, December 9-11, 2013, Hull, MA.
- P222. Shepard DS, Glaser E, Kihombo A, Khoshi S. Cost effectiveness of indoor residual spraying in Nyanza Province Kenya. Presented at: 62nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 2013, Washington, DC.
- P221. Tyagi BK, Karthiga KS, Vidya C, Arora NK, Nandan D, Halasa YA, Jhansi C, Mohan N, Varadarajan P, Mariappan T, Samuel PP, Paramasivan R, Vivek Adish S, Gaba, M, Porkaipandian T, Shepard DS. Dengue in India: the Madurai case study. Presented at: 62nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 2013, Washington, DC.
- P220. Shepard DS, Halasa YA, Tyagi BK, Vivek Adish S; Nandan D, Karthiga KS, Vidya C, Gaba M, Arora NK. Dengue in India: the cost of illness. Presented at: 62nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 2013, Washington, DC.
- P219. Shepard DS, Betancourt-Cravioto M, Undurraga EA, Gubler DJ, Guzman MG, Halstead SB, Harris E, Kuri-Morales P, Martínez-Vega R, Méndez-Galván J, Mudin RN, Ramos-Castañeda J, Tapia-Conyer R. Dengue v2V Under-Reporting Initiative. Dengue in Mexico: use of multiple data sources to estimate economic and disease burden. Poster 1062. Presented at: 62nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 2013, Washington, DC.
- P218. Shepard DS, Halasa YA, Edillo FE, Largo FM, Amon NB. The cost of dengue in the Philippines. Presented at: 62nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 2013, Washington, DC.
- P217. Edillo FE, Alera MT, Amon NB, Halasa YA, Largo FM, Yoon I.-K, Undurraga EA, Shepard DS. Adjustment factor for the reported number of dengue cases from a prospective cohort in Punta Princesa, Cebu City, Philippines. Poster 1061. Presented at: 62nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 2013, Washington, DC.
- P216. Edillo FE, Erasmo JN, Halasa YA, Amon NB, Largo FM, Shepard DS. Dengue surveillance system in action in the Philippines. Presented at: 62nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 2013, Washington, DC.
- P215. Glaser E, Okunogbe A, Odhiambo JA, Gimnig J, Hamel MJ, Ritter G, Otieno P, Olang G, Bayoh N, Shepard DS. Impact of insecticide treated wall liner on school attendance in rural western Kenya. Presented at: 62nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 2013, Washington, DC.
- P214. Shepard DS, Glaser E, Olang G, Bayoh N, Odhiambo F, Were V, Otieno P, Kariuki S, Laserson K, Desai M, Gimnig J, Hamel M, Kihombo A, Rwiwerek A. Insecticide treated wall liner: cost-effectiveness of a new tool for malaria prevention. Presented at: 141st Annual Conference of the American Public Health Association, November 5, 2013, Boston, MA.
- P213. Shepard DS. Economic burden of dengue. Presented at: 13th International Dengue Course, Pedro Kouri Institute, August 14, 2013, Havana, Cuba.
- P212. Shepard DS. Overview of economic burden of dengue in the region. Presented at: Developing Strategies for Meeting the Challenge of Equitable Vaccine Introduction in the Americas: with a focus on Dengue Vaccine Financing. July 22-23, 2013, Washington, DC.

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- P211. Shepard DS, Zeng W, Lee A, van der Looij F. Symposium on performance-based financing: recent developments in low- and middle-income countries. Presented at: International Health Economics Association Congress, July 9th, 2013, Sydney, Australia.
- P210. Shepard DS, Glaser E, Olang G, Bayoh N, Desai M, Kihombo A, Gimnig J, Hamel MJ, Odhiambo FJ, Odhiambo JA, Okunogbe A, Were V, Otieno P, Khoshi S, Ritter G, Laserson K, Kariuki S. Cost-effectiveness of two forms of malaria prevention in rural western Kenya. Presented at: International Health Economics Association Congress, July 8th, 2013, Sydney, Australia.
- P209. Shepard DS. Social and economic burden of dengue and thoughts about cost-effectiveness of interventions. Presented at: Eliminate Dengue Annual Meeting, May 9, 2013, Bali, Indonesia.
- P208. Shepard DS, Glaser E, Olang G, Bayoh N, Desai M, Kihombo A, Odhiambo F, Gimnig J, Hamel MJ, Were V, Otieno P, Rwiyerika AK, Laserson K, Kariuki S. Insecticide treated wall liner: Cost-effectiveness of a new technology for malaria prevention in Kenya. Presented at: Fourth East African Community Health and Scientific Research Conference, March 27, 2013, Kigali, Rwanda.
- P207. Shepard DS. Economic appraisals: Overview and application to Human African Trypanosomiasis. Presented at Foundation for Innovative New Diagnostics (FIND), March 11, 2013, Geneva, Switzerland.
- P206. Shepard DS, Halasa Y, Wittenberg E, Fonseca DM, Farajollahi A, Healy S, Gaugler R, Bartlett-Healy K, Strickman D, Clark GG. Cost-benefit analysis of an area-wide pest management program against the Asian Tiger Mosquito in NJ. Presented at: American Mosquito Control Association Conference. February 27, 2013, Atlantic City, NJ.
- P205. Shepard DS, Halasa Y, Undurraga EA. Expansion factors for underreported cases of dengue. Presented at: National Workshop on Eliminating the Burden and Estimating the Cost of Dengue in the Philippines. February 23, 2013, Cebu City, Philippines.
- P204. Shepard DS. International experience and preliminary estimate of cost of dengue in India. Presented at: Delphi Workshop for Determining the Expansion Factor for Under Reporting of Dengue Cases in India, February 19, 2013, New Delhi, India.
- P203. Shepard DS. Economic appraisals: overview of key concepts for product development partnerships. Presented at the Product Development Partnership's Access Group, Population Council, New York, Jan. 23, 2013.
- P202. Shepard DS, Glaser E, Olang G, Bayoh N, Desai M, Kihombo A, Odhiambo F, Gimnig J, Hamel MJ, Were V, Otieno P, Laserson K, Kariuki S. Cost-effectiveness of insecticide treated wall liner for malaria prevention in rural western Kenya. Presented at: The efficacy of insecticide-treated durable wall liners (ITWL) as a method for malaria control in endemic rural Tanzania: Start-up workshop, December 10-12, 2012, Dar es Salaam, Tanzania.
- P201. Shepard DS, Zeng W, Rusatira JDD, Blaakman A. Mise à jour sur l'évaluation et l'assistance Technique au Ministère de la Santé et de la Population (Updates on Evaluation and Technical Assistance to the Ministry of Health and Population). Presented to the Ministry of Health and Population, December 5, 2012, Brazzaville, Republic of Congo.



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- P200. Shepard DS, Glaser E, Olang G, Bayoh N, Desai M, Kihombo A, Odhiambo F, Gimnig, J, Hamel MJ, Were V, Otieno P, Laserson K, Kariuki S. Cost-effectiveness of insecticide treated wall liner for malaria prevention in rural western Kenya. Presented at the 61<sup>st</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Nov. 11-15, 2012, Atlanta, GA.
- P199. Shepard DS, Betancourt-Cravioto M, Gubler DJ, Guzman MG, Halstead SB, Harris E, Kuri-Morales P, Mudin R-N, Siqueira JG, Tapia-Conyer R, Undurraga EA. Economic cost and disease burden of dengue in Mexico: Adjusting for under-reporting. Presented at the 61<sup>st</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Nov. 11-15, 2012, Atlanta, GA.
- P198. Shepard DS, Halasa YA, Wittenberg E, Fonseca D, Farajollahi A, Healy S, Gaugler R, Bartlett-Healy K, Strickman D, Clark GG. Economic evaluation of area-wide pest management program to control Asian tiger mosquito in New Jersey. Presented at the 61<sup>st</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Nov. 11-15, 2012, Atlanta, GA.
- P197. Shepard DS, Undurraga EA, Gutierrez JM, Saturno PJ. Value and impact of international hospital accreditation in Spain. Presented at the Annual Conference International Society for Quality in Health Care, Oct.22, 2012, Geneva, Switzerland.
- P196. Shepard DS. Under-reporting initiative: Status update and next steps. Presented at the 4th Dengue v2V (vaccine to Vaccination) Steering Committee Meeting sponsored by Dengue v2V Group, Sept. 10-11, 2012, Paris, France.
- P195. Shepard DS. Dengue in Asia: Cost of illness and cost-effectiveness of vaccination and vector control. Presented via videoconference at Regional Meeting on Dengue Prevention and Control, National Institute of Immunology, Sept. 18, 2012, New Delhi, India.
- P194. Thomas CP, Shepard DS. Evaluation of Wisconsin SeniorCare. Waltham, MA: Schneider Institutes for Health Policy, Wisconsin Department of Health Services, August 30, 2012. Web: <http://www.dhs.wisconsin.gov/seniorcare/input/evaluation.pdf>.
- P193. Shepard DS, Kihombo A, Glaser E, Odhiambo J. Contribution of health economics to KEMRI/CDC: The case of a new vector control technology for malaria. KEMRI/CDC, June 26, 2012, Kisian, Kisumu, Kenya.
- P192. Blaakman A, Shepard DS, Zeng W, Rusatira J. Agence d'appui technique et de suivi et évaluation du financement basé sur la performance [Agency for technical assistance, monitoring, and evaluation of performance-based financing]. Ministry of Health and Population, May 16, 2012, Brazzaville, Republic of Congo.
- P191. Shepard DS, Gurewich D, Lwin A, Reed J, Silverman M. Suicide and suicidal attempts in the United States: Costs and potential interventions. Presented at the American Association of Suicidology, April 19, 2012, Baltimore, MD.
- P190. Shepard DS, Halasa Y. Economic analysis of area-wide integrated pest management for mosquito control project. Presented at USDA Advisory Board, Jan. 4-6, 2012, New Brunswick, NJ.
- P189. Shepard DS, Rusatira J, Zeng W. Performance-based financing: international experiences and planned monitoring and evaluation in Republic of Congo. Workshop on Performance-Based Financing, Ministry of Health and Population, Dec. 20, 2011, Brazzaville, Republic of Congo. Web: <http://people.brandeis.edu/~shepard/downloads.html>.



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- P188. Shepard DS. Economic cost of sarcopenia and hunger in the United States. Presented at 6<sup>th</sup> Cachexia Conference, Dec. 10, 2011, Milan, Italy.
- P187. Undurraga E, Halasa Y, Shepard DS. Expansion factors: a key step in estimating dengue burden and costs in South East Asia [abstract 1054]. Presented at the 60<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Dec. 7, 2011, Philadelphia, PA.
- P186. Shepard DS. Undurraga E, Lees R, Halasa Y, Ng CW, Lum LC. Economic cost of dengue in Malaysia: merging multiple sources [abstract 510]. Presented at the 60<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Dec. 5, 2011, Philadelphia, PA.
- P185. Shepard DS. Health system of the United States. Presented via videoconference at Congreso internacional salud y justicia social: claves para el futuro de la salud de los pueblos Argentina [International conference on health and social justice: parallel keys for the future of health of the people of Argentina], Cultural Center Graciela Carena, Cordoba, Argentina, December 1, 2011.
- P184. Shepard DS. Economic burden of dengue in Southeast Asia. Presented at Sanofi Symposium, International Conference on Pediatric Tropical Diseases, Bangkok, Thailand, October 19, 2011.
- P183. Shepard DS. Expectations of payers and registration authorities for health economics outcomes. Presented at Novartis strategic advisory board on muscles diseases, Cambridge, MA, Oct. 14, 2011.
- P182. Shepard DS, Setren E, Cooper D. Hunger in America: suffering we all pay for. Presented at press conference held by Congressman Jim McGovern (D, MA). House Office Building, Washington, DC, October 5, 2011.
- P181. Shepard DS, Setren E, Cooper D. Hunger in America: suffering we all pay for. Washington, DC: Center for American Progress. <http://www.americanprogress.org/issues/2011/10/hunger.html>.
- P180. Shepard DS, Sunish IP, Lwin AK, White G. Cost-effectiveness of added vector control to the regular MDA [mass drug administration] program for global elimination of lymphatic filariasis in Tamil Nadu, India. Presented at National Workshop in Lymphatic Filariasis and Field-Based Demonstration Meeting, sponsored by the Centre for Research on Medical Entomology, Indian Council for Medical Research, Chennai, Tamil Nadu, India, August, 2011.
- P179. Shepard DS, Lwin AK, Strickler GK, Garner BR. Cost-effectiveness of pay for performance incentives for therapists treating substance abuse: Preliminary results from a randomized experiment. Presented at International Health Economics Association (iHEA) 8th World Congress, Ontario, Canada, July, 2011.
- P178. Shepard DS, Undurraga EA, Lees R, Ng CW, Halasa Y, Lum L. Economic cost of dengue in Malaysia: Using 'triangulation' for sub-sectoral accounts. Presented at 7th Global Symposium on National Health Accounts, Toronto, Ontario, Canada, July, 2011.
- P177. Shepard DS, Stanciole A, Zeng W. Getting the money to work better: Improving the efficiency and effectiveness of services for OVC. Presented at 5th Global Partners Forum, New York, NY, June 3, 2011.
- P176. Shepard DS, Saturno P. Value and impact of implementing selected international hospital accreditation standards: A pilot study. Presented at Ministerio de Sanidad, Política Social e Igualdad [Ministry of Health, Social Policy and Equality], Madrid, Spain, April 14, 2011.

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- P175. Zeng W, Shepard DS, Chilingerian J, Avila-Figueroa C. Global evidence of comparative efficiency: performance of national HIV/AIDS programs. Presented at UNAIDS and World Bank Economic Reference Group Meeting, Geneva, Switzerland, March 7, 2011.
- P174. Shepard DS, Zeng W. Design of health insurance in The Gambia. Prepared under an agreement with International Health Partners, UK, Feb. 2, 2011. Web: <http://people.brandeis.edu/~shepard/downloads.html>.
- P173. Shepard DS, Halasa Y, Wittenberg E. Progress on economic component of area-wide management of Asian tiger mosquito, March 2010-January 2011. Presented at Area-wide Management of ATM 2010 Annual Review Meeting, Center for Vector Biology, Rutgers University, New Brunswick, NJ, Jan. 5, 2011.
- P172. Shepard DS. Burden of dengue in Malaysia. Presented at Dengue Burden in Malaysia Workshop sponsored by Ministry of Health of Malaysia, Brandeis University, and Sanofi Pasteur, Putrajaya, Malaysia, Dec. 6, 2010.
- P171. Shepard DS. Economic costs of dengue. Presented at 1st Dengue v2V (vaccine to Vaccination) Asia-Pacific Workshop sponsored by Dengue v2V Group, Singapore, Nov. 30 - Dec. 2, 2010.
- P170. Gurewich D, Shepard DS, Sirkin J, Zolotusky G, Garnick D. Coordinating primary and substance abuse treatment services in community health centers. Presented at AHSR 2010, Addiction Health Services Research Conference, Lexington, KY, Oct. 25-27, 2010.
- P169. Shepard DS, Lwin AK, Strickler GK, Atuaka C, Garner B. The Reinforcing Therapist Performance experiment: preliminary cost findings. Presented at AHSR 2010, Addiction Health Services Research Conference, Lexington, KY, Oct. 25-27, 2010.
- P168. Shepard DS, Gurewich D. High performing community health centers: what it takes. Presented at National Association of Community Health Centers (NACHC) Community Health Institute, Dallas, TX, September 14, 2010.
- P167. Shepard DS. Economic analysis of NTD programs. Presented at the annual meeting of the Strategic Technical Advisory Committee (STAG), World Health Organization, Geneva, July 1, 2010.
- P166. Zeng W, Shepard DS, Chilingerian J, Avila-Figueroa C. Resource needs and gap analysis in achieving the targets of universal access to prioritized HIV/AIDS services by 2010. Report prepared for UNAIDS. Jan 2010.
- P165. Gurewich D, Shepard DS, Sirkin J, Zolotusky G, Prottas J, Garnick D. Coordinating primary and substance abuse treatment services in community health centers. Presented at AcademyHealth Annual Research Meeting, Boston, MA, June 28, 2010.
- P164. Shepard DS, Suaya JA, Stason WB, Ades PA. Managing heart disease in older Americans: Cost-effectiveness of cardiac rehabilitation. Presented at AcademyHealth Annual Research Meeting, Boston, MA, June 27, 2010.
- P163. Shepard DS, Halasa Y, Undurraga E. The global burden of dengue. Presented via teleconference at Global Burden of Disease Expert Advisory Meeting, Institute for Health Metrics, University of Washington, Seattle, WA, May 7, 2010.
- P162. Shepard DS. Climate change and economic cost of disease. Presented via teleconference at Celebration of World Health Day, Hospital Francés, Cordoba, Argentina, April 9, 2010.

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- P161. Shepard DS. Lifestyle modification and cardiac rehabilitation: what we have learned and where do we go from here. Presented at Office of Research, Demonstrations, and Information, Centers for Medicare & Medicaid Services, Baltimore, MD, March 1, 2010.
- P160. Bongiovanni A, Shepard DS. Frozen embryo donation-adoption study final project debriefing. Presented at Office of Population Affairs, U.S. Department of Health and Human Services, Rockville, MD, March 1, 2010.
- P159. Shepard DS, Halasa Y. Progress on economic component of area-wide management of Asian tiger mosquito, March 2009-January 2010. Presented at Area-wide Management of ATM 2010 Annual Review Meeting, Center for Vector Biology, Rutgers University, New Brunswick, NJ, Feb. 4, 2010.
- P158. Shepard DS, Tyo K, Rubin J. Modeling the public health and economic impact of pneumococcal vaccination in an influenza pandemic. Presented at Ministry of Health, Singapore, Dec. 17, 2009.
- P157. Shepard DS. Cost-effectiveness analysis. Second International Health Economics Seminar, Sponsored by Malaysian Health Economics Association, Universiti Kebangsaan Malaysia Medical Centre, United Nations University International Institute for Global Health, and Malaysia Ministry of Health, Kuala Lumpur, Malaysia, Dec. 14-16, 2009.
- P156. Shepard DS, Tschampl CA, Dubre D, Hurley CL. Cost analysis tools for homeless service programs: description and progress. Presented at Homeless Resource Center Advisory Steering Committee, Rockville, MD, Dec. 9, 2009.
- P155. Halasa YA, Shepard DS, Fonseca D, Fonseca D, Farajollahi A, Healy S, Gaugler R, Clark GG. Willingness to pay for area-wide pest management of Asian Tiger Mosquito in New Jersey, Presented at the 58th ASTMH Annual Meeting, Washington, DC, Nov. 22, 2009.
- P154. Shepard DS, Halasa YA, Dieppa M, Pérez-Guerra CL. Aggregate economic cost of dengue in Puerto Rico. Presented at the 58th ASTMH Annual Meeting, Washington, DC, Nov. 18-22, 2009.
- P153. Pérez-Guerra CL, Halasa YA, Rivera R, Pena M, Ramírez V, Cano MP, Shepard DS. Economic cost of dengue vector control in Puerto Rico. Presented at the 58th ASTMH Annual Meeting, Washington, DC, Nov. 18-22, 2009.
- P152. Shepard DS. Cost-effectiveness models to evaluate pneumococcal vaccination: the case of Singapore. Presented at Pneumococcal Disease Prevention in the Asia-Pacific Region: Bridging the Future, 5<sup>th</sup> Pneumococcal Disease Conference, Bangkok, Nov. 6-8, 2009.
- P151. Shepard DS. Modeling the public health and economic impact of pneumococcal vaccination in an influenza pandemic. Presented at Pneumococcal Disease Prevention in the Asia-Pacific Region: Bridging the Future, 5<sup>th</sup> Pneumococcal Disease Conference, Bangkok, Nov. 6-8, 2009.
- P150. Shepard DS, Suaya JA. Cost-effectiveness of a dengue vaccine in Southeast Asia and Panama. Presented at International Health Economics Association (iHEA) 7<sup>th</sup> Biennial World Congress, Beijing, July 15, 2009.
- P149. Zeng W, Shepard DS, Chilingerian J, Avila C. Performance of National HIV and AIDS programs. Presented at International Health Economics Association (iHEA) 7<sup>th</sup> Biennial World Congress, Beijing, July 13, 2009.

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- P148. Shepard DS, Rwiyerika AK, Amico P, Zeng W, Furere S, Avila C. The impact of AIDS funding on the health care system: a controlled study from Rwanda. Presented at International Health Economics Association (iHEA) 7<sup>th</sup> Biennial World Congress, Beijing, July 13, 2009.
- P147. Shepard DS, Halasa Y. Cost measures in cost and value study. Presented at Workshop on Value and Impact of Hospital Accreditation, Health Care Accreditation Council, Amman, Jordan, July 4-5, 2009. Web: Part 1: [www.youtube.com/watch?v=jfHEdz851Po](http://www.youtube.com/watch?v=jfHEdz851Po); Part 2: [www.youtube.com/watch?v=Q5BIWP0gT60](http://www.youtube.com/watch?v=Q5BIWP0gT60); Part 3: [www.youtube.com/watch?v=8omZAsYtKfc](http://www.youtube.com/watch?v=8omZAsYtKfc).
- P146. Shepard DS, Tyo KR, Oyeneyin A, Dubre D. Homeless program economic evaluation. Presented at Expert Panel Meeting, Homelessness Resource Center, Newton, MA, June 29, 2009.
- P145. Shepard DS. Economic analysis of Neglected Tropical Diseases (NTDs). Presented at: 2009 annual meeting of the Strategic and Technical Advisory Committee for Neglected Tropical Diseases, World Health Organization, Geneva, Switzerland, April 17, 2009.
- P144. Shepard DS. Economic models for evaluating health interventions and the implications for pneumococcal vaccination: structures, data sources, key parameters, and economies of scale. Presented at: Asian Strategic Alliance for Pneumococcal disease prevention (ASAP) Regional Summit, Taipei, Taiwan, March 23-24, 2009.
- P143. Mavalankar D, Puwar T, Murtola T, Vasan SS, Field R, Alphey N, Gong H-F, Shepard DS. Quantifying the impact of chikungunya and dengue on tourism revenues. Working paper 2009-02-03 Ahmedabad: Indian Institute of Management, 2009. Web: [www.iimahd.ernet.in/publications/data/2009-02-03Mavalankar.pdf](http://www.iimahd.ernet.in/publications/data/2009-02-03Mavalankar.pdf).
- P142. Suaya JA, Shepard DS, Halstead SB. (co-chairs). Measuring disease burden and cost of illness of Neglected Tropical Diseases: Lessons from a multi-country dengue study, Symposium 154. Presented at the 57th ASTMH Annual Meeting, New Orleans, LA, Dec. 11, 2008.
- P141. Shepard DS, Tyo KR, Seidmann-Rosen M, Zeng W. Cost-effectiveness of pneumococcal vaccination among children in Singapore. Waltham, MA: Schneider Institutes for Health Policy, Heller School, Brandeis University, 2008.
- P140. Shepard DS, Suaya JA, Ades PA, Stason WB. Cardiac rehabilitation in older coronary patients: cost, survival impact, and cost-effectiveness. Presented at the annual meeting of the American Association for Cardiovascular and Pulmonary Rehabilitation, Indianapolis, IN, Sept. 18-21, 2008.
- P139. Shepard DS, Zeng W, Chilingerian J, Avila-Figueroa C. Efficiency of national HIV/AIDS programs based on Data Envelopment Analysis. Presented at XVII International AIDS Conference, Mexico City, Mexico, August 3-8, 2008.
- P138. Rwiyerika AK, Shepard DS, Humuza J, Zeng W, Avila-Figueroa C. Costing model of a national AIDS program: Application to Rwanda. Presented at XVII International AIDS Conference, Mexico City, Mexico, August 3-8, 2008.
- P137. Brown JL, Shepard DS. Testimony before the U.S. House of Representatives Committee on Agriculture, Subcommittee on Department Operations, Oversight, Nutrition and Forestry, July 23, 2008.
- P136. Shepard DS, Koh D, Thomas C, Ritter G, Gilden D, Stason W, Bishop C. Reduction of Medicaid expenditures from state prescription programs in Illinois and Wisconsin. Presented at AcademyHealth Annual Research Meeting, Washington, DC, June 8-10, 2008.

- P135. Shepard DS, Zeng W, Chilingerian J, Avila C. Efficiency of national HIV/AIDS programs based on Data Envelopment Analysis. Presented at AcademyHealth Annual Research Meeting, Washington, DC, June 8-10, 2008.
- P134. Bhalotra S, Shepard DS, Razavi M. Improving referral and enrolment in cardiac rehabilitation: findings from a survey of American Association of Cardiopulmonary Rehabilitation (AACVPR) members. Presented at AcademyHealth Annual Research Meeting, Washington, DC, June 8-10, 2008.
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- P110. Shepard DS, Suaya JA. Lifestyle modification and cardiac rehabilitation in the Medicare program. Presented at the 21<sup>st</sup> Annual Meeting of the American Association for Cardiovascular and Pulmonary Rehabilitation, Charleston, WV, Sept. 14, 2006.
- P109. Shepard DS, Neuman MJ. Behavioral health care in Massachusetts: Comparison between the MassHealth behavioral health carve out and managed care organizations. Presented at AcademyHealth Annual Research Meeting, Seattle, WA, June 25-27, 2006, <http://www.academyhealth.org/2006/abstracts/PartII/BehavioralHealth.pdf>.
- P108. Kaplan C, Neighbors CJ, Shepard DS. Worker productivity: how job status can moderate the economic impact of illness. Presented at AcademyHealth Annual Research Meeting, Seattle, WA, June 25-27, 2006. <http://www.academyhealth.org/2006/abstracts/PartI/CallforStudentPosters.pdf>.
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- P103. Shepard DS, Beaton-Blaakman A, Horgan C. An interactive approach to estimating costs of drug and alcohol treatment: the ADSS Cost Study. Presented at Addiction Health Services Research Conference, Santa Monica, CA, Oct. 25-26, 2005.
- P102. Shepard DS, Beaton-Blaakman A, McKay JR. Cost-effectiveness of telephone counseling and relapse prevention for cocaine or alcohol dependent clients. Presented at Addiction Health Services Research Conference, Santa Monica, CA, Oct. 25-26, 2005.
- P101. Shepard DS, Strickler GK, McKay JR, Love CT. Cost comparisons in behavioral health care: the log ratio indicator. Presented at the International Health Economics Association (iHEA) Meeting, Barcelona, Spain, July 10-13, 2005.
- P100. Shepard DS. Expenditure tracking on dengue. Presented at the 4th Biennial National Health Accounts Symposium. Involving Leaders, Impacting Policy: Tracking Investment in Priority Health Care, Barcelona, Spain, July 7-8, 2005.
- P099. Leung M, Shepard DS, Stason W, Ritter G. Predictors of Prescription Drug Skimping among Enrollees in SeniorCare. Presented at Academy Health Annual Research Meeting, Boston, MA, June 26-28, 2005.
- P098. Suaya JA, Shepard DS, Stason WB, Ritter G, Bhalotra S, Strickler GK. National Underutilization of Cardiac Rehabilitation after Acute Myocardial Infarction among Elderly Medicare Patients. Presented at Academy Health Annual Research Meeting, Boston, MA, June 26-28, 2005.
- P097. Bhalotra S, Shepard DS, Strickler CG. Organizational Factors Affecting Enrollment of Medicare Beneficiaries into CMS' Lifestyle Modification Program Demonstration (LMPD) for Cardiac Disease. Presented at Annual Research Meeting of Academy Health, San Diego, CA, June 2004.
- P096. Shepard DS, Suaya JA. Cost-effectiveness of a potential dengue vaccine in Southeast Asia. Presented at the Second International Conference on Dengue and Yellow Fever (May 31-June 3, 2004), Havana, Cuba.
- P095. Suaya JA, Shepard DS. Dengue burden of disease studies: a basis for policies on vaccine development, vector control, and treatment. Presented at the Second International Conference on Dengue and Yellow Fever (May 31-June 3, 2004), Havana, Cuba.
- P094. Suaya JA, Shepard DS. A cost model for vector control programs against dengue, presented at the 131st Annual Meeting of the American Public Health Association (November 15-19, 2003), San Francisco, CA, Abstract 62527, Session 4329.0, [http://apha.confex.com/apha/131am/techprogram/paper\\_62527.htm](http://apha.confex.com/apha/131am/techprogram/paper_62527.htm).
- P093. Shepard DS, Strickler GK, Beaton-Blaakman A, Rahman M, McAuliffe WE, Anderson T. Estimating the cost of treatment gaps in Massachusetts: Unmet need and demand, presented at the 131st Annual Meeting of the American Public Health Association (November 15-19, 2003), San Francisco, CA, Abstract 72682, Session 4094.0, Board 5, [http://apha.confex.com/apha/131am/techprogram/paper\\_72682.htm](http://apha.confex.com/apha/131am/techprogram/paper_72682.htm).

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- P091. Daley M, Anthony Y, Shepard DS. Racial minorities, managed care and the quality of substance abuse treatment, to be delivered at 131st Annual Meeting of the American Public Health Association, November 15-19, 2003, San Francisco, CA, Abstract 71572, Session 3005.0, Managed Care in Substance Abuse Treatment, November 17, 2003, at 8:30 AM, [http://apha.confex.com/apha/131am/techprogram/paper\\_71572.htm](http://apha.confex.com/apha/131am/techprogram/paper_71572.htm).
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- P087. Shepard DS, Beaton-Blaakman A. Spending patterns on behavioral health care in US from private insurance. Presented at the 4th iHEA World Congress on Health Economics, San Francisco, CA, June 15-18, 2003.
- P086. Shepard DS, McKay JR, Strickler GK, Love CT, Yeom HS, Bury-Maynard DP, Calabro JAB. Cost-effectiveness of self-help aftercare in drug abuse treatment: Correcting for self-selection. Presented at the 4th iHEA World Congress on Health Economics, San Francisco, CA, June 15-18, 2003.
- P085. Hodgkin D, Shepard DS, Strickle, GK, Anthony Y. Carving out substance abuse treatment but keeping it public: The Michigan Medicaid experience. Presented at the 130th Annual Meeting of the American Public Health Association, Philadelphia, PA, Session 4095.0, November 10-13, 2002, abstract 46708, web: [http://apha.confex.com/apha/130am/techprogram/paper\\_46708.htm](http://apha.confex.com/apha/130am/techprogram/paper_46708.htm).
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- P080. Shepard DS, Savedoff W, Phua KH. Healthcare reform initiatives in Malaysia. Seminar organized by the Planning and Development Division, Ministry of Health, Malaysia in Collaboration with the World Health Organization. Kuala Lumpur, Malaysia, 8 October, 2002.
- P079. Shepard DS, Suaya JA, Halstead S. Dengue in Southeast Asia: burden and cost-effectiveness of control strategies. Presented at: Annual Meeting of the Academy for Health Services Research, Washington, DC, June 23-25, 2002.
- P078. Suaya JA, Shepard DS, Halstead S. Cost-effectiveness of vaccine development and environmental control against dengue in Southeast Asia. Presented at the Annual Meeting of the International Society for Pharmacoeconomics and Outcomes Research (ISPOR), Washington, D.C., May 2002.
- P077. Shepard DS. Economics of mental health and substance abuse. Presented at the Institute of Mental Health, Singapore, February 22, 2002.
- P076. Shepard DS, Gubler DJ, Mahoney RT. Pharmaco-economics of a Pediatric Dengue Vaccine for SE Asia. Presented at: International Conference on Accelerating the development and introduction of a dengue vaccine for poor children, Ho Chi Minh City, Vietnam, Dec. 5-8, 2001.
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- P074. McKay JR, Shepard DS, Mulvaney F, Ratichek SJ, Morrison R, Koppenhaver J, Beaton-Blaakman A. Preliminary results from a randomized trial of three continuing care treatments for patients with cocaine or alcohol use disorders. Presented at the 129th Annual Meeting of the American Public Health Association, Atlanta, GA, Oct. 21-25, 2001, Session 5003.0, Abstract #31579. Web: [http://apha.confex.com/apha/129am/techprogram/paper\\_31579.htm](http://apha.confex.com/apha/129am/techprogram/paper_31579.htm).
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- P068. Daley M, Shepard DS. Effects of Managed Care on Alcohol and Other Drug Treatment in Massachusetts. Presented at the Annual Meeting of the Research Society on Alcoholism, Montreal, PQ, June 23-28, 2001.
- P067. Shepard D, Bail RN, Merritt G. Cost-Effectiveness of Regional Versus Bilateral Approaches to International Assistance in West Africa. Presented at the Annual Meeting of the Academy for Health Services Research, Atlanta, GA, June 10-12, 2001, Poster No. 353.
- P066. Jacobs EA, Shepard DS, Suaya J, Stone EL. Overcoming language barriers to access to medical care: the costs and benefits of interpreter services. Presented at the Annual Meeting of the Academy for Health Services Research, Atlanta, GA, June 10-12, 2001, Poster No. 166.
- P065. Shepard DS, Daley M. Effects of a Statewide Carve-Out on Access and Costs of AOD Treatment in Massachusetts. Presented in invited panel, "Alcohol and Drug Treatment Under Managed Care: Who Gets In, Who Stays In, and What Does it Cost?" chaired by Harold I. Perl at the Annual Meeting of the Academy for Health Services Research, Atlanta, GA, June 10-12, 2001.
- P064. Shepard DS. Cost-effectiveness analysis in health: principles and applications. Presented at: Institute for Medical Research, Kuala Lumpur, Malaysia, Feb. 10, 2001.
- P063. Shepard DS. Cost-effectiveness and cost-benefit analysis: employer, consumer, and societal perspectives. Presented at: Department of Community, Family, and Occupational Medicine, National University of Singapore, January 30, 2001.
- P062. Shepard DS. Savings from a managed care plan for behavioral health for Massachusetts Medicaid. Presented at: Public Policy Programme, National University of Singapore, January 29, 2001.
- P061. Strickler G, Shepard DS, Love C, McKay J, Yeom HS, Calabro J, Bury-Maynard DP, Tetreault J. Lower crime: A cost-effective payoff from substance abuse treatment. Presented at the 128th Annual Meeting of the American Public Health Association, Boston, MA, November 15, 2000, Session 5301.0.
- P060. Shepard DS, Beaston-Blaakman A. Treatment duration and completion: How do they relate to cost? Presented at the 128th Annual Meeting of the American Public Health Association, Boston, MA, November 15, 2000, Session 5226.0.
- P059. Shepard DS, McKay J, Love C, Yeom HS, Strickler G, Calabro J, Bury-Maynard DP, Tetreault J. Free is cost-effective: Alternative forms of aftercare. Presented at the 128th Annual Meeting of the American Public Health Association, Boston, MA, November 15, 2000, Session 5301.0.
- P058. Love C, Shepard DS, Daley M. Never too late: Cost-effectiveness of substance abuse treatment in prison. Presented at the 128th Annual Meeting of the American Public Health Association, Boston, MA, November 15, 2000, Session 5301.0.
- P057. Daley MA, Argeriou M, McCarty D, Shepard DS, Callahan JJ, Williams CN. Impact of program components, personal characteristics and lifestyle changes on birth weight and health care costs for pregnant women in drug rehabilitation. Presented at the 128th Annual Meeting of the American Public Health Association, Boston, MA, November 14, 2000, Session 4165.0.



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- P056. Daley MA, Argeriou M, McCarty D, Shepard DS. The costs of crime and the benefits of substance abuse treatment for pregnant women. Presented at the 128th Annual Meeting of the American Public Health Association, Boston, MA, November 13, 2000, Session 3079.0.
- P055. Bury-Maynard DP, Shepard DS. Quantifying the non-dollar benefits of substance abuse treatment. Presented at the 128th Annual Meeting of the American Public Health Association, Boston, MA, November 15, 2000, Session 5301.0.
- P054. Beaston-Blaakman A, Shepard DS, Shadel W. Cost in cost-effectiveness: Measuring time as a cost of treatment services. Presented at the 128th Annual Meeting of the American Public Health Association, Boston, MA, November 15, 2000, Session 5301.0.
- P053. Shepard DS. Cost-effectiveness analysis in clinical research. Presented to Epidemiology and clinical trials and outcomes research program in nephrology, Tufts University, Boston, MA, Oct. 5, 2000.
- P052. Shepard DS, Beaston-Blaakman, A, Bennett RB. Substance Abuse Treatment in the United States: What does it cost? Presented at the 2000 Annual Meeting of the Association for Health Services Research, Los Angeles, CA, June 25-27, 2000, poster number 280.
- P051. Shepard DS; Bury Maynard D, Hodgkin D, Larson MJ. Cost-Effectiveness of Substance Abuse Treatment Services in Ohio's Publicly Funded Facilities. Presented at the 2000 Annual Meeting of the Association for Health Services Research, Los Angeles, CA, June 25-27, 2000, poster number 117.
- P050. Shepard DS, Beaston-Blaakman A. The Substance Abuse Treatment System. What does treatment cost? Cost study methods in the Alcohol and Drug Services Study (ADSS). Presented at: 127th Annual Meeting and Exposition, American Public Health Association, November 7-11, 1999. Chicago, IL: Session 1163.
- P049. Shepard DS, Hodgkin D, Anthony Y, Tetreault J. The public alternative: Michigan's Medicaid carve out. Presented at: 127th Annual Meeting and Exposition, American Public Health Association, November 7-11, 1999. Chicago, IL, Session 3096.
- P048. Shepard DS, Hodgkin D, Cavanaugh D, Beinecke R. Contrasting systems of managed care for behavioral health under Medicaid. Presented at the 126<sup>th</sup> Annual Meeting of the American Public Health Association, Washington, DC, November 17, 1998.
- P047. Shepard DS. Cost-effectiveness of substance abuse treatment in the criminal justice system. Presented at the Research Briefing to the Physicians' Leadership on National Drug Policy. Substance Abuse in the Criminal Justice System, Washington, DC, November 10, 1998.
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